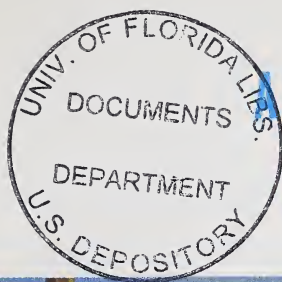


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UNITED  
STATES  
AIR FORCE  
ACADEMY



Catalog 1960-1961

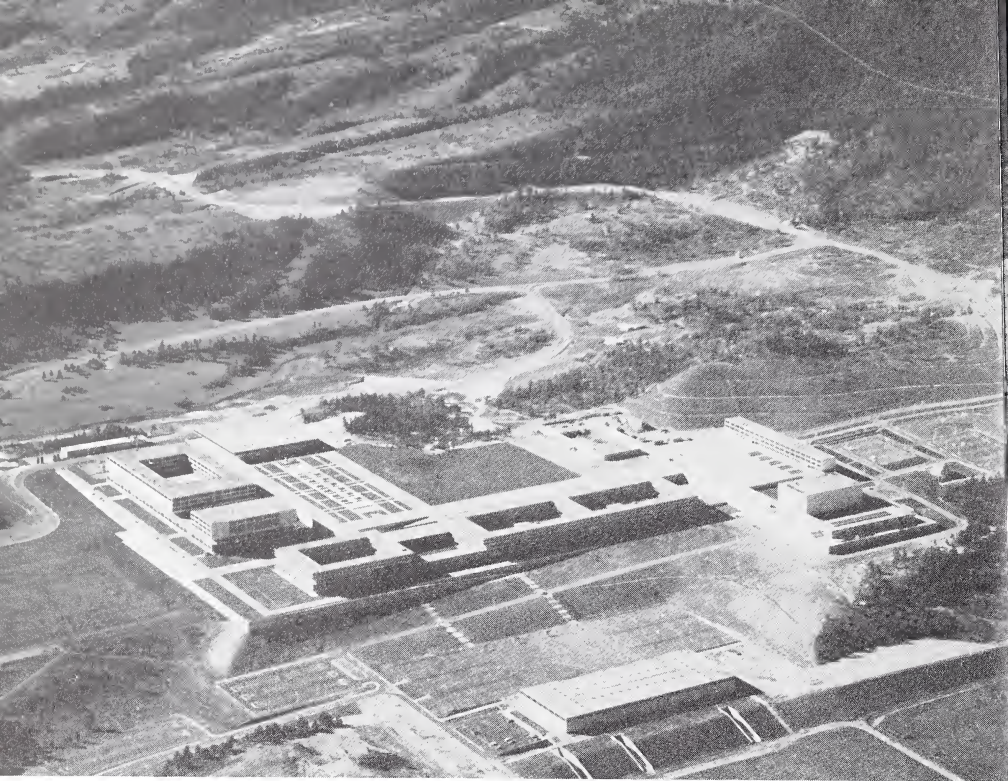












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## *important dates*

**1 June 1960-  
31 January 1961** *Application and Nomination Period*

**January-March 1961** *Air Force Testing*

**18 March 1961** *College Entrance Examination  
Board Tests (Regular Date)*

**8 April 1961** *College Entrance Examination  
Board Tests (Make-up Date)*

**Mid-May 1961** *Cadet Class Selected*

**26 June 1961** *Cadet Class Enters*



# *calendar* 1960-1961

<b>9 Jun 60, Thursday</b>	<i>Summer Term Begins</i>
<b>27 Jun 60, Monday</b>	<i>Class of 1964 Enters</i>
<b>4 Jul 60, Monday</b>	<i>Holiday, Independence Day</i>
<b>17 Aug 60, Wednesday</b>	<i>Summer Term Ends</i>
<b>22 Aug 60, Monday</b>	<i>Fall Term Begins</i>
<b>5 Sep 60, Monday</b>	<i>Holiday, Labor Day</i>
<b>11 Nov 60, Friday</b>	<i>Holiday, Veterans' Day</i>
<b>24 Nov 60, Thursday</b>	<i>Holiday, Thanksgiving Day</i>
<b>20 Dec 60, Tuesday</b>	<i>Fall Term Ends; Christmas Leave Begins</i>
<b>3 Jan 61, Tuesday</b>	<i>Christmas Leave Ends; Spring Term Begins</i>
<b>22 Feb 61, Wednesday</b>	<i>Holiday, Washington's Birthday</i>
<b>6 May 61, Saturday</b>	<i>Spring Term Ends</i>
<b>8 May 61, Monday</b>	<i>May Term Begins</i>
<b>30 May 61, Tuesday</b>	<i>Holiday, Memorial Day</i>
<b>3 Jun 61, Saturday</b>	<i>May Term Ends; June Week Begins</i>
<b>7 Jun 61, Wednesday</b>	<i>June Week Ends; Graduation Day, Class of 1961</i>
<b>8 Jun 61, Thursday</b>	<i>Summer Term Begins</i>
<b>26 Jun 61, Monday</b>	<i>Class of 1965 Enters</i>

# board of visitors

## Appointed by the President of the United States

<b>Maj. Gen. Edward P. Curtis</b>	<i>USAFR, Vice President, Eastman Kodak Company, Rochester, New York</i>
<b>Mr. Victor Emanuel</b>	<i>Chairman of the Board, AVCO Corporation, New York, New York</i>
<b>Dr. Robert L. Stearns</b>	<i>Former President, University of Colorado, Boulder, Colorado</i>
<b>Lt. Gen. Bryant L. Boatner</b>	<i>USAF Retired, Cleveland, Ohio</i>
<b>Mr. Harold Taft King</b>	<i>Attorney Denver, Colorado</i>
<b>Gen. Edwin W. Rawlings</b>	<i>USAF Retired, Finance Vice President, General Mills, Minneapolis, Minnesota</i>

## Appointed by the Vice President of the United States

<b>Sen. Henry C. Dworshak</b>	<i>Idaho</i>
<b>Sen. A. S. Monroney</b>	<i>Oklahoma</i>

## Appointed by the Speaker of the House

<b>Rep. Don Magnuson</b>	<i>Washington</i>
<b>Rep. J. Edgar Chenoweth</b>	<i>Colorado</i>
<b>Rep. Byron G. Rogers</b>	<i>Colorado</i>
<b>Rep. Gerald R. Ford</b>	<i>Michigan</i>
<b>Rep. Leon H. Gavin</b>	<i>Pennsylvania</i>

## Ex-officio Members of the Board

<b>Sen. Richard B. Russell</b>	<i>Georgia (Represented by Sen. Strom Thurmond, South Carolina)</i>
<b>Rep. Carl Vinson</b>	<i>Georgia (Represented by Sen. Gordon Allott, Colorado)</i>

A Board of Visitors is established by law to inspect the curriculum, instruction, and facilities of the Air Force Academy each year.



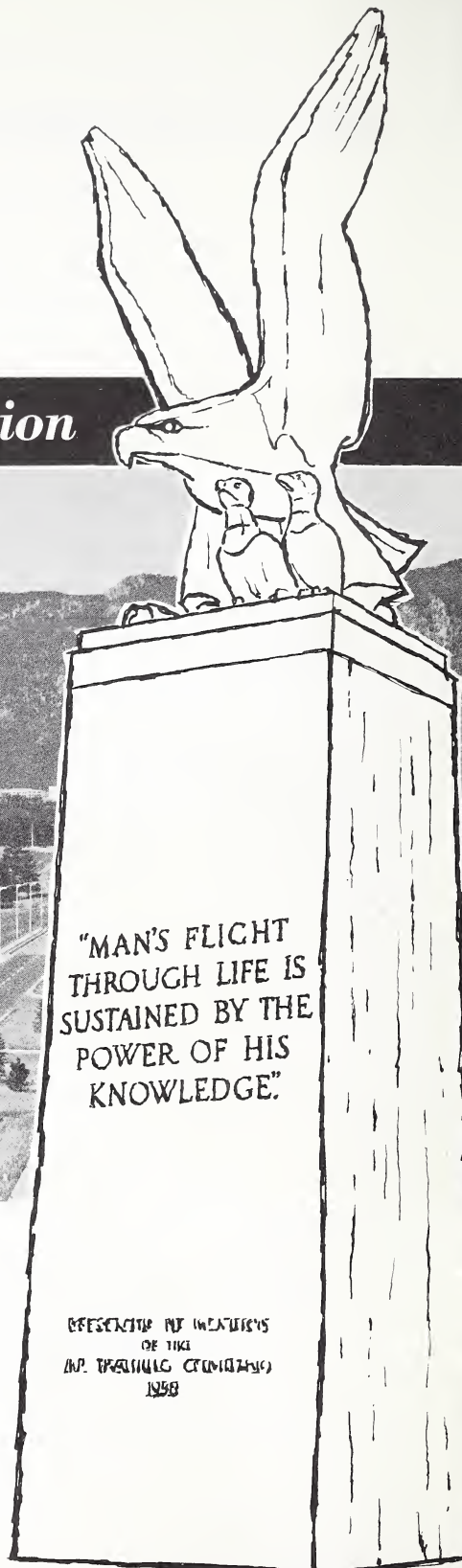
# *officers of administration*

<b>Superintendent</b>	<i>Maj. Gen. William S. Stone</i>
<b>Commandant of Cadets</b>	<i>Maj. Gen. Henry R. Sullivan</i>
<b>Dean of the Faculty</b>	<i>Brig. Gen. Robert F. McDermott</i>
<b>Director of Athletics</b>	<i>Col. M. L. Martin</i>
<b>Chief of Staff</b>	<i>Col. Delmer J. Rogers</i>
<b>Staff Chaplain</b>	<i>Col. Charles I. Carpenter</i>
<b>Registrar</b>	<i>Lt. Col. Virgil J. O'Connor</i>

## **The Academy Board**

<b>Superintendent, <i>President of the Board</i></b>
<b>Commandant of Cadets</b>
<b>Dean of the Faculty</b>
<b>Director of Athletics</b>
<b>Chairman, Basic Sciences Division</b>
<b>Chairman, Applied Sciences Division</b>
<b>Chairman, Humanities Division</b>
<b>Chairman, Social Sciences Division</b>
<b>Deputy Commandant for Cadet Wing</b>
<b>Deputy Commandant for Airmanship Studies</b>
<b>Chief of Staff, <i>Secretary</i></b>
<b>Registrar, <i>Assistant Secretary</i></b>

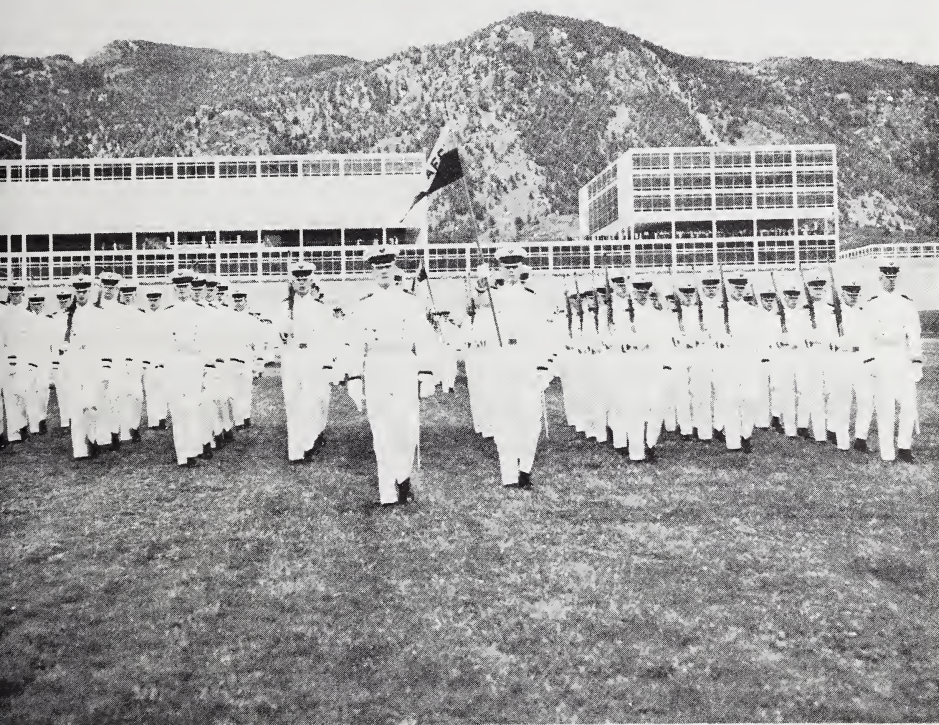
*mission*



"MAN'S FLIGHT  
THROUGH LIFE IS  
SUSTAINED BY THE  
POWER OF HIS  
KNOWLEDGE."

PRESENTED BY MEMBERS  
OF THE  
A.P. ATHLETIC COMMITTEE  
1958





**The Air Force Academy provides instruction, experience, and motivation to each cadet so that he will graduate with the knowledge, character, and qualities of leadership essential to his progressive development as a career officer in the United States Air Force.**

# objectives

The four-year curriculum of the Air Force Academy is composed of the Academic Program, the Airmanship Program, and the Athletic Program. Successful completion of all programs entitles the cadet to graduate with a Bachelor of Science degree and a Regular commission as second lieutenant.

## ***The Academic Program***

Provides general courses in liberal arts, science, and engineering studies which furnish a foundation for future development in any of the numerous career fields open to Air Force officers.

Provides elective courses to meet the needs of the individual cadet in developing his full academic potential.

Motivates the cadet for continued educational development after graduation through self-instruction and attendance at graduate schools.

Prepares the cadet to fulfill his intellectual duties as a citizen and a dedicated public servant in the Air Force.

## ***The Airmanship Program***

Develops in the cadet the moral character and qualities of leadership desired in an Air Force officer.

Instills in the cadet a deep founded belief in national defense, pride in the United States Air Force, and inspiration and determination to give his best in a lifetime of service to his country.

Equips the cadet with fundamental military knowledge and skills required of a junior officer, and provides him with the professional military education upon which to base continued growth and development leading to the highest command and staff positions.

Motivates the cadet toward a career in the aerospace age and provides a foundation for future specialization in manned and unmanned aerospace systems.

## ***Athletic Program***

Develops desirable traits of character such as persistence, desire-to-win, and aggressiveness which are essential to leadership.

Develops those qualities needed to perform physical tasks without undue strain.

Develops a positive attitude toward personal and Air Force-wide physical fitness.

Promotes the *esprit de corps* of the Cadet Wing through healthy competition and pride in an outstanding athletic program.



# *historical background*

## *Establishment*

The creation of an academy to prepare officers for a career in the United States Air Force had been advocated for many years by General Billy Mitchell and other public and military leaders who foresaw the development of military aviation. The idea was not officially considered, however, until 1949 when the Secretary of Defense appointed a board of outstanding military and civilian educators to recommend a general system of education for the Army, Navy, and Air Force. The chairman of this board was Dr. Robert L. Stearns, then President of the University of Colorado, and the vice chairman was General Dwight D. Eisenhower, then President of Columbia University.

Early in 1950 the board concluded that a nucleus of Regular officers from the Armed Services should be educated, trained, and dedicated from youth onward for a lifetime of service to their country. It found that the needs of the Air Force could not be met by any desirable expansion of the existing service academies and recommended that an Air Force Academy be established without delay. The Congress approved legislation to establish the Air Force Academy, and President Eisenhower signed it into law on April 1, 1954.

## *Construction and Physical Layout*

The Air Force Academy is located ten miles north of Colorado Springs, Colorado, at the foothills of the Rampart Range of the Rocky Mountains. While construction began at the permanent site, the Academy was established at an interim location on Lowry Air Force Base in Denver. On July 11, 1955, the Academy's first class of 306 cadets entered at Lowry. In September, 1958, after four classes had been admitted to the Academy, the cadets and faculty moved into their permanent quarters.

Selection of the permanent site was accomplished in 1954 by Secretary of the Air Force Harold E. Talbott and his selection committee: Dr. Virgil M. Hancher, President of the University of Iowa; Merrill C. Meigs, Vice President of the Hearst Corporation; General Carl A. Spaatz, USAF Retired; Brig. Gen. Charles A. Lindberg, USAF Reserve; and Lt. Gen. Hubert R. Harmon, USAF.

The states were asked to submit their suggestions for the location of the permanent site. After screening some 400 locations and visiting proposed sites in 22 states, the committee reduced the number to three possibilities: Alton, Illinois; Lake Geneva, Wisconsin; and Colorado Springs, Colorado. Following a personal inspection of the

three locations, the Secretary named Colorado Springs as the permanent home of the United States Air Force Academy on June 24, 1954. Among the factors the site selectors considered were acreage, community facilities, topography, climate, water supply, utilities, transportation, and cost of construction.

The Academy site consists of 17,900 acres of former ranch land, with 10,000 acres being adaptable to construction of Academy facilities. The topography of the site is a series of fingerlike mesas with valleys in between, backed to the west by the mountains and overlooking the plains to the east. Located at the northernmost part of the site, 7,100 feet in altitude, is the main complex of the Academy where the cadets live and attend classes. Included in this area are the cadet dining hall, academic building and library, applied sciences laboratory, administration building, cadet social center, planetarium, gymnasium, parade and drill field, and athletic fields. A cadet chapel is under construction in this area. Located at the south end of the site is a service and supply complex. Housing for officers and airmen and a community center are located in the valleys between the north and south areas. A hospital is under construction on a mesa above the housing valleys. The Academy buildings are designed in contemporary architectural style, featuring glass, aluminum, steel, and white marble.

### ***Academy Superintendents***

The late Lt. Gen. Hubert R. Harmon was the first Superintendent of the Air Force Academy. General Harmon retired from active duty with the Air Force on July 31, 1956. His successor was Maj. Gen. James E. Briggs, who served as Superintendent for three years. In August 1959 he was promoted to Lieutenant General and transferred to Randolph Air Force Base, Texas, as commander of Air Training Command. The present Superintendent is Maj. Gen. William S. Stone, a 1934 graduate of the United States Military Academy. Before coming to the Academy last August, he was Commander of Eastern Transport Air Force, Military Air Transport Command.

### ***First Academy Graduation***

Two-hundred and seven cadets, comprising the Class of 1959, were the first to graduate from the Air Force Academy. They received their commissions and diplomas on June 3, 1959, at ceremonies in the theater of the cadet social center. Bradley C. Hosmer, top-ranking graduate in the class, was selected for a Rhodes Scholarship at Oxford University, England.

During June Week ceremonies honoring the graduating cadets, the Academy's main buildings were named for famous Air Force leaders. The buildings are Vandenberg Hall (the cadet dormitory), Harmon Hall (the administration building), Mitchell Hall (the dining hall), Fairchild Hall (the academic building), and Arnold Hall (the cadet social center).

Two months before the first graduation, the Air Force Academy was recognized as an accredited institution of higher learning by the North Central Association of Colleges and Secondary Schools. Accreditation was granted one year before the normal time of consideration for a new educational institution.

## CADET VACANCIES FOR THE CLASS ENTERING IN JUNE 1961

United States Senators	100
United States Representatives	437
District of Columbia	2
Puerto Rico	1
President	22
Vice President	1
Regular Components	23
Reserve Components	22
Sons of Deceased Veterans	10
Honor Military and Naval Schools	10
Qualified Alternates	144*
Total	<u>772</u>

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\*Or whatever additional number may be authorized to meet the needs of the Air Force without exceeding the authorized strength of the Air Force Cadet Wing.





*admissions*



Prospective candidates or other interested persons who desire additional copies of this catalog or who desire personal guidance counselling from a local official Air Force Academy representative should write to:

Registrar  
United States Air Force Academy  
Colorado

## ELIGIBILITY REQUIREMENTS

To be eligible for a cadet appointment to the class entering the Academy on June 26, 1961, a young man must meet the following basic requirements:

### *Age*

He must be at least 17 and not yet 22 years of age on July 1, 1961.

### *Citizenship*

He must be a male citizen of the United States.

### *Character*

He must have good moral character.

### *Marital Status*

He must be unmarried and never have been married. (Any cadet who marries will be discharged from the Academy.)

### *Medical Standards*

He must be in good physical condition.

He must have at least 20/50 vision, correctable to 20/20 with moderate refractive error limitations.

He must be at least 5 feet 4 inches and not more than 6 feet 6 inches tall with weight in normal relation to height.

## APPLICATION PROCEDURES

### *Nomination Requirements*

A young man who desires an appointment to the Air Force Academy must first apply for and obtain a nomination in at least one of the following authorized categories:

*Congressional* — Open to residents of the 50 states.

*District of Columbia and Possessions* — Open to residents of the District of Columbia, the Canal Zone, and the Commonwealth of Puerto Rico.

*Vice Presidential* — Open to residents of the United States at large.

*Presidential* — Open to sons of present, retired, or deceased members of the Regular components of the Armed Forces.

*Members of the Regular and Reserve Components of the Air Force and Army.*



*Sons of Deceased Veterans.*

*Sons of Congressional Medal of Honor Winners.*

*Honor Graduates of Honor Military and Naval Schools.*

These categories are described thoroughly in this chapter under the section entitled *Nominating Categories*. All of the nominating sources are established by law, and no one can take the entrance examinations and be considered for an appointment to the Academy unless officially nominated as a candidate.

An applicant should study the nominating categories to determine what kind or kinds of nomination he is eligible to seek. Since specific cadet vacancies are allocated to each nominating category, an applicant may improve his chances of selection by applying in all the categories for which he is eligible. Only one series of entrance examinations is required of a candidate even though he may be entered in more than one nominating category.

A candidate to the Air Force Academy in a previous year who failed to receive an appointment may become a candidate again by obtaining a nomination from one of the authorized authorities.

### ***How to Apply***

There are no special application forms issued to prospective candidates, and the Academy should not be contacted to furnish sample formats of application. A regular business type letter is all that is required to apply for a nomination (except Regular and Reserve component applicants who must complete the standard form available from their unit commander).

The *Nominating Categories* section of this chapter contains instructions on how to apply in each nominating category, including information to furnish in the application and to whom it should be addressed. An applicant should give all the information requested to establish that he is qualified in the category for which he is applying. He should address the application to the proper authority to insure that it is received without delay.

When applying for a nomination, an applicant should use the name which appears on his birth certificate. If he should desire to use a different name on his records, he will be required as a candidate to furnish evidence, usually a court order, supporting the change of his own name. Legal change of his parents' name will not be acceptable.

### ***When to Apply***

Nominations for the cadet class entering in 1961 open on June 1, 1960, and close on January 31, 1961. Applications should be submitted as early in the nomination period as possible.

It is particularly important in applying for a Congressional nomination to submit a request early, because the Senators and Representatives spend considerable time in screening their applicants. Most of them require their applicants to take a Civil Service examination as a measure of general knowledge. Ordinarily the examination is given to applicants in July and November.<sup>1</sup> A majority of the Members of Congress also require their applicants to take a preliminary medical examination, which is explained in this chapter under *Examinations*.

### ***Notification of Nomination***

An applicant who is nominated as a candidate to the Air Force Academy will be officially notified by the Director of Admissions at the Academy. A Congressional nominee will not receive notification until his name has been submitted to the Academy by the Senator or Representative who nominated him. The Member of Congress may submit his list of nominees any time during the June through January nominating period.

As soon as possible following the official notification, the Director of Admissions will forward instructions pertaining to the entrance examinations and to records required of the candidate.

### ***Assistance from Liaison Officers***

A group of Air Force Reserve officers not on active duty, as well as selected officers assigned to the Air National Guard, Reserve Officer Training Corps, and Civil Air Patrol, act in an official capacity as Liaison Officers for the Air Force Academy. They provide information to young men and their parents concerning admissions procedures and cadet life. A prospective candidate who desires to talk with the Liaison Officer nearest to him may obtain his name and address by writing to the Registrar, United States Air Force Academy, Colorado.

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<sup>1</sup>The Academy does not administer the Civil Service examination which Members of Congress may require and does not advise prospective candidates on how to prepare for this examination. Any request for information regarding this examination should be directed to the Member of Congress.

## NOMINATING METHODS

### *Congressional*

Each United States Senator and Representative will have one cadet vacancy to fill in each entering class. The Member of Congress may choose between two methods of nomination as follows:

#### **1. *Principal-Alternate Method***

He may nominate one principal candidate and ten alternate candidates listed in order of his preference. If the principal candidate qualifies on the entrance examinations, he will be offered the appointment. If the principal does not pass the examinations, the first alternate candidate who qualifies will be chosen.

#### **2. *Competitive Method***

He may nominate eleven candidates and authorize the Air Force Academy to select his best qualified candidate. A composite score will be determined for each of the eleven candidates who qualifies on the entrance examinations. The composite score will include all entrance examination scores, previous academic achievement, a score for extracurricular activities, and a rating based upon the recommendations of school principals and teachers. The candidate with the highest composite score will be offered the appointment.

### ***Other Categories***

The choice between the principal-alternate method and the competitive method is also available to the following nominating authorities: the Resident Commissioner of Puerto Rico, the Governor of the Canal Zone, Commissioners of the District of Columbia, and the Vice President of the United States.

Candidates will be selected for appointment on a competitive basis from nominees entered in the following categories: Presidential, Sons of Deceased Veterans, Regular and Reserve Components, and Honor Military and Naval Schools. Nominees chosen to fill extra appointments allocated to Qualified Alternate Candidates will also be selected competitively. Factors considered in the competition are all entrance examination scores, previous academic achievement, extracurricular activities, and recommendations of school principals and teachers.

The Son of a Congressional Medal of Honor Winner will be nominated upon application to the Academy. He will be offered an appointment, provided he qualifies on the entrance examinations.



## NOMINATING CATEGORIES

### *Congressional*

A total of 537 cadet vacancies will be filled from nominees of Members of Congress. Each Senator and Representative may nominate eleven candidates. Any resident of the 50 states who meets the Academy eligibility requirements may apply for a Congressional nomination. The applicant must make his request directly to a United States Senator from his state or to a United States Representative from his Congressional district. The applicant's letter should include the following:

1. His name, address, and date of birth.
2. Parents' name.
3. Information on education and extracurricular activities.
4. Information on physical qualifications.

A sample Congressional letter of application is given in the appendix of this catalog for guidance to the applicant.

### *District of Columbia*

Two vacancies are reserved for the District of Columbia. The Commissioners of the District of Columbia may nominate eleven candidates for each of the two vacancies. A letter requesting nomination from a Commissioner should contain the same information required of Congressional applicants.

### *The Canal Zone and the Commonwealth of Puerto Rico*

One vacancy is allotted to Puerto Rico in each entering class. The Canal Zone will not have a vacancy available until 1963.

Residents of the Canal Zone may apply to the Governor of the Canal Zone, and residents of Puerto Rico may apply to the Resident Commissioner. A letter of application to one of these nominating authorities should contain the same information required of Congressional applicants.

### *Vice Presidential*

One vacancy is reserved for the Vice President of the United States, who may nominate eleven candidates from the nation at large. A letter requesting nomination should be addressed to the Vice President and should contain the same information required of Congressional applicants.

## ***Presidential***

Twenty-two vacancies are allocated to the President of the United States, who in turn has reserved these vacancies for sons of members of the Regular components of the Armed Services (Air Force, Army, Navy, Marine Corps, and Coast Guard). The eligibility requirements of the law specify that the Regular component member must still be in the service on active duty, retired or deceased, but not discharged before retirement. The son of a member of the Reserve component is not eligible in this category, unless his parent received a Reserve commission or warrant while on enlisted status in the Regular component and is currently serving on active duty.

To request a nomination in this category, an applicant (not his parent) must write to the Director of Admissions, United States Air Force Academy, Colorado. The applicant's letter must include the following:

1. His full name, address, and date of birth.
2. His rank, service number, organization, and station, if a member of the military service.
3. The full name, rank, service number, branch of service, and date of service of the parent connected with the Regular component.
4. Evidence of the parent's term of enlisted status, date of discharge therefrom, and date of commission or warrant, if the parent was previously enlisted in the Regular component and now has a commission or warrant in the Reserve component.

In order for an adopted son to qualify as a Presidential candidate, he must have been legally adopted before his fifteenth birthday or proceedings must have been started before that time.

There are no limits on the number of candidates who may compete in the Presidential category. If it is determined that an applicant meets the eligibility requirements, he will be confirmed as a candidate in this competition.

## ***Sons of Deceased Veterans***

Ten vacancies are reserved for sons of deceased veterans who were killed in action or died of wounds, injuries, or disease incurred in active service during World War I, World War II, or after June 26, 1950, and before February 1, 1955.

To request a nomination in this category, an applicant must write to the Director of Admissions, United States Air Force Academy, Colorado. The applicant's letter must include the following:

1. His full name, address, and date of birth.
2. His rank, service number, organization, and station, if a member of the military service.
3. The full name, service number, rank, and branch of service of the parent whose service-connected death entitles him to enter the competition.
4. A brief statement concerning the date, place, and cause of death, together with the claim number assigned to the parent's case by the Veterans Administration.

There are no limits on the number of candidates who may compete in the Sons of Deceased Veterans category. If it is determined that an applicant meets the eligibility requirements, he will be confirmed as a candidate in this competition.

### ***Regular Components***

Twenty-three vacancies are reserved for members of the Regular Air Force and the Regular Army who have completed one full year of active Regular service by July 1 of the year in which they would be admitted to the Academy. A candidate must be an active member of the Regular component when appointed to the Academy, but his year of required service time does not have to be continuous.

A joint Air Force-Army regulation (AFR 53-10, AR 350-58, "Appointment to the United States Air Force Academy") gives complete directions for making application in this category. A prospective candidate must apply through his unit commander, who will process his application and forward it to the Director of Admissions for a determination of eligibility. The application form (DD Form 786) should be obtained through normal publications supply channels at the military organization where the individual is assigned.

### ***Reserve Components***

Twenty-two vacancies are allotted for members of the Reserve components of the Air Force and the Army (Air Force Reserve, Army Reserve, Air National Guard, and Army National Guard) who have completed one full year of Reserve service by July 1 of the year in which they would be admitted to the Academy. A candidate must be an active member of the Reserve component when appointed to the Academy, but his year of required service time does not have to be continuous.



A joint Air Force-Army regulation (AFR 53-10, AR 350-58, "Appointment to the United States Air Force Academy") gives complete directions for making application in this category. A prospective candidate must apply through his unit commander, who will process his application and forward it to the Director of Admissions for a determination of eligibility. The application form (DD Form 786) should be obtained through normal publications supply channels at the military organization where the individual is assigned.

### ***Honor Military and Naval Schools***

Ten vacancies are reserved for honor graduates of honor military schools and honor naval schools. The Departments of Air Force, Army, and Navy determine annually which preparatory schools will be designated as honor schools. Each honor school may nominate three candidates from its honor graduates or prospective honor graduates to compete for the cadet vacancies. The schools must submit their nominations to the Director of Admissions, United States Air Force Academy, Colorado, before January 31, 1961.

Each nomination must contain a certification by the head of the institution that the candidate was an honor graduate or is a prospective honor graduate during a year that the institution was designated an honor school.

### ***Sons of Congressional Medal of Honor Winners***

The son of a Congressional Medal of Honor winner who served in any branch of the Armed Services may apply for a nomination in this category. If an applicant meets the eligibility criteria and qualifies on the entrance examinations, he will be admitted to the Academy. Vacancies are not limited in this category.

An applicant must write to the Director of Admissions, United States Air Force Academy, Colorado, requesting a nomination in this category. The letter must include the following:

1. His full name, address, and date of birth.
2. His rank, service number, organization, and station, if a member of the military service.
3. The full name, rank, service number, and branch of service of the parent to whom the Medal of Honor was awarded.

### ***Qualified Alternate Candidates***

In each entering class the Air Force Academy Board may recommend qualified alternate candidates for appointment in whatever number may be necessary to bring the Cadet Wing to its authorized strength. It is anticipated that more than 140 vacancies will be

filled from qualified alternate candidates in the class entering in June 1961. Only those qualified alternates named by Members of Congress, the Governor of the Canal Zone, and the Resident Commissioner of Puerto Rico will be considered. Not more than one qualified alternate nominated by any one authority may be appointed each year.

Thus a young man nominated by one of those authorities, but not appointed to fill his vacancy, will still be considered for the Academy if he qualifies on the entrance examinations. All qualified alternate candidates will be considered and no application by the individual is necessary.

### ***Foreign Students***

The Air Force Academy will begin to admit young men from certain foreign countries in 1962. Quotas will be allocated to the Republic of the Philippines, the American Republics, and Canada. Citizens of other foreign countries may be admitted only through specific authorization of the United States Congress.

## **EXAMINATIONS**

### ***Preliminary Medical Examination***

Preliminary medical examinations may be given to Air Force Academy applicants at Army, Navy, and Air Force installations. (Applicants should select an Air Force installation if possible.) A preliminary medical is advisable for these reasons:

1. The examination might reveal a disqualifying physical defect which could be corrected in time to qualify on the Air Force Academy Medical Examination.
2. The examination might show that an applicant is definitely physically disqualified. Knowing this in advance would save him the time of taking the final medical, while his early withdrawal might enable another applicant to receive a nomination.

In order to take a preliminary medical at a military installation, an applicant must first obtain a letter of authorization. Before deciding on their nominations, many Members of Congress send an authorization to their prospective nominees requiring that they undergo the preliminary medical. Those who do not receive an authorization may request it by writing to their Senator or Representative. Applicants from the District of Columbia or from areas

outside of the United States should contact their nominating authority.

Applicants in the Regular and Reserve component categories will be required to take a preliminary medical and will receive the authorization from their unit commander.

Applicants in the other service-connected categories will also be required to take a preliminary medical and will receive the authorization from the Director of Admissions when their candidate eligibility has been determined.

An applicant is advised to take the examination at the nearest military installation, preferably an Air Force facility, and to arrange for an appointment in advance by contacting the surgeon's office at the installation hospital. The Air Force Academy and Aircrew Examining Centers listed in the appendix of this catalog constitute a partial list of Air Force facilities available to the applicant.

A preliminary medical examination is for the information and guidance of the candidate and his nominating authority only. The examination results do not obligate the Department of the Air Force to accept a candidate, if later he is found to have a disqualifying physical defect on the final medical examination.

### ***Air Force Examinations***

A candidate will be scheduled to take the Air Force Officer Qualifying Test, the Air Force Academy Qualifying Medical Examination, and the Physical Aptitude Examination at the Air Force Academy and Aircrew Examining Center nearest to him.

The Director of Admissions will send a scheduling letter to the candidate specifying the time and place to report for these examinations. If the candidate cannot report at the time specified, he may request a change in the testing date. The request should be submitted at least three weeks prior to the scheduled testing date, unless special circumstances are involved which make this impossible. In his request the candidate should specify his first and second choices of preferable testing dates. Tests will be scheduled during 1961 on January 9, 23, and 30; February 13 and 27; and March 6, 13, 20, and 27.

Approximately three days are required to complete the tests. Travel expenses must be paid by the candidate, unless he is a member of the Armed Services on active duty. Meals and living accommodations while at the examining center will be provided at a nominal cost to the candidate.

*The Air Force Officer Qualifying Test* includes a series of questions covering the following:

Reading Comprehension

Vocabulary

General Knowledge

General Science

Arithmetical Reasoning

General Mathematics

Aviation Information

Mechanical Information

Table Reading

Spatial Orientation

The Air Force Officer Qualifying Test measures ability and aptitude factors within a broad scope. A candidate may prepare for this test in a general rather than a specific way by following the Preparation Guide for Candidates, presented in a subsequent chapter. Since a young man's entire educational background as well as his motivation and aptitude for an Air Force career are measured by this test, it is not possible or desirable to study specifically for the questions given. For that reason, previous test copies or sample questions will not be furnished to a candidate.

*The Air Force Academy Qualifying Medical Examination* measures a candidate's physical fitness for admission to the Academy. A candidate must meet the following general physical standards:

1. Good physical condition.
2. At least 20/50 vision, correctable to 20/20 with moderate refractive error limitations.
3. At least 5 feet 4 inches and not more than 6 feet 6 inches tall with weight in normal relation to height.

Common medical reasons for disqualification of candidates under the Air Force Academy Qualifying Medical Examination are shown in the appendix.

*The Physical Aptitude Examination* includes a series of physical aptitude exercises designed to measure strength, coordination, endurance, speed, and agility. Candidates are advised not to write for sample test items. One may prepare for this examination simply by keeping in good condition — engaging in competitive games and conditioning exercises — rather than by practicing on specific test items.

### ***College Entrance Examination Board Tests***

A candidate will be required to take the following College Entrance Examination Board Tests:

Scholastic Aptitude Tests

1. Verbal Section



## 2. Mathematics Section

### Achievement Tests

1. Intermediate Mathematics or Advanced Mathematics (optional choice)
2. English Composition

Besides the required aptitude and achievement tests listed above, the testing period allows time for a third achievement test which the candidate may select from those offered by the College Board.

A bulletin of information, *College Board Tests*, will be forwarded to the candidate by the Director of Admissions. The bulletin includes a test application form which must be forwarded by the candidate directly to the College Entrance Examination Board. A description of the tests and sample questions will be sent to the candidate by the College Board if he indicates a request on the application form.<sup>1</sup>

The College Entrance Examination Board will schedule the candidate to take the tests on March 18, 1961, at a College Board center which the candidate chooses from a list included in the bulletin. The center may be located within the candidate's community or usually not more than 75 miles from his home.

If circumstances arise which make it impossible for a candidate to take the tests on March 18, he may submit a request to be scheduled for the tests on April 8. A letter containing his reason for requesting the April 8 make-up date should be addressed to the Director of Admissions, United States Air Force Academy, Colorado. The request should be made well in advance of the testing date if possible.

The College Board Tests on April 8 will be given only at Air Force Examining Centers. This means that a candidate might be scheduled to take the tests at a center which is a considerable distance from his home. Therefore, each candidate should take the tests on March 18 if at all possible.

If a candidate has taken the College Board Tests during the three months previous to March, the scores he achieved will be accepted by the Academy, provided he writes the College Entrance Examination Board and asks that his scores be forwarded to the Director of

<sup>1</sup>If a young man should desire to secure a description of the tests and sample questions prior to the time he becomes a candidate, he may write to Educational Testing Services at one of the following addresses: Box 592, Princeton, N. J., or Box 27896, Los Angeles, Calif. He should request a copy of the publications *Scholastic Aptitude Tests* and *Achievement Tests*. There is a 50-cent charge for each publication or a total of \$1.00 for the two.

Admissions.<sup>1</sup> A candidate is encouraged, however, to take the tests again since he may improve on his previous scores.

The fee for College Board Tests will be paid by the Department of the Air Force, provided the tests are taken on March 18 or April 8. A free test voucher will be forwarded to the candidate along with his application form for the College Board Tests. The candidate must mail both the test voucher and the application form to the College Entrance Examination Board.

## ADMISSION DEPOSIT AND TRAVEL EXPENSES

Each cadet will be requested to deposit \$300 when admitted to the Academy. A cadet who finds it impossible to provide the full sum may deposit a smaller amount. The deposit will be credited to the cadet's account to help defray initial costs of equipment and uniforms issued to him on a charge basis after admission. Failure to make a deposit is no bar to admission. However, a cadet who does not make a deposit must be considerably more economical with his pay, in order to meet necessary expenses and participate in normal activities until his account reaches the required normal balance. Each candidate selected for the Academy receives a copy of the *Cadet Budget* which includes specific information regarding the entrance deposit.

Except for a member of the Armed Forces who is provided transportation under joint travel regulations, each selected candidate is allowed six cents per mile for travel expenses to the Academy from his home in the United States or point of entry into the country. The allowance will be credited to his account following admission, unless he makes a specific request that the money be sent to his parents. If the allowance is credited to his account, the cadet may choose to apply the sum toward his entrance deposit.

## OBLIGATIONS OF CADET APPOINTMENT

Upon admission each cadet will be required to sign an agreement, with the consent of his parents or guardian if a minor, that he will fulfill these obligations:

1. He will complete the course of instruction at the Air Force Academy.

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<sup>1</sup>To request previous test scores to be forwarded to the Director of Admissions, the candidate should write to the College Entrance Examination Board either at Box 592, Princeton, N. J., or Box 27896, Los Angeles, Calif. Candidates who live in Montana, Wyoming, Colorado, New Mexico and states west should write to the Los Angeles office; others should write the New Jersey office.

2. He will accept an appointment and serve as a commissioned officer in a Regular component of one of the Armed Services for four years.

3. If authorized to resign from the Regular component before the sixth anniversary of his graduation, he will serve as a commissioned officer in the Reserve component until the sixth anniversary.

4. If discharged from the Air Force Academy before graduation, he will accept transfer to the Air Force Reserve, in an appropriate enlisted grade, to complete the six-year service obligation.

The Department of Defense has established the four-year obligated tour for graduates of all service academies. Current Air Force policy requires that the four-year tour will begin upon the completion of basic pilot training for Air Force Academy graduates who elect pilot training. Air Force Academy graduates who do not enter pilot training will begin their four-year tour immediately upon graduation.



## PREPARATION GUIDE FOR CANDIDATES

### *Time of Application*

The majority of young men admitted to the Air Force Academy enter immediately after graduation from high school. Between June and January of their senior year, they apply for a nomination to enter the Academy following high school graduation.

Those who feel that they need additional academic preparation after high school, or who were unable to obtain an appointment immediately upon graduation, are encouraged to attend a civilian college or university while waiting to try for a subsequent class. Since there are many fine institutions of higher learning throughout the



country, the Academy does not attempt to recommend specific schools to those who wish to prepare for the Academy.

### ***Transfer Credit or Validation***

College credits are transferable to the Air Force Academy in certain instances. The completed courses must be comparable to or a reasonable substitute for those in the Academy curriculum, and an acceptable grade level must have been achieved. The cadet is exempt from taking those courses in which transfer credit is awarded.

In addition, a cadet who has taken college-level courses in secondary or preparatory schools may validate comparable Academy courses, provided he can show acceptable levels of achievement in his prior courses. One way of demonstrating achievement is through the College Entrance Examination Board Advanced Placement Tests.<sup>1</sup> Academy professors will consider the advanced placement test scores and award credit for acceptable score levels. A cadet must choose courses with approximately the same credit hours to substitute for the prescribed courses he is authorized to omit by reason of transfer credit or validation.

Young men who are preparing for the Academy should plan to transfer credit or validate courses whenever possible. Cadets who have done so will be able to complete their prescribed courses sooner than they would otherwise. In this way they will have more time to major in a subject area and prepare themselves more thoroughly for post-graduate study. It is anticipated that a number of Academy graduates will be selected for advanced study early in their careers.

No matter how many courses a cadet may validate or transfer, he must enter as a Fourth Classman and spend four years at the Academy.

### ***Academic Preparation***

The Air Force Academy entrance examinations measure a candidate's potential for success in the Academy academic program of liberal arts and science studies. For adequate academic preparation

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<sup>1</sup>The advanced placement tests are administered in May of each year at College Board examining centers throughout the country. Registration in advance, including payment of fee, is necessary. Information on registration procedures, fees, testing dates, and examining centers is contained in the bulletin, *Advanced Placement Examinations*, available without charge. This bulletin may be obtained by writing to the College Board Advanced Placement Examinations at one of the following addresses: Box 592, Princeton, N. J., or Box 27896, Los Angeles 27, Calif.

in high school, a young man should definitely take the following subjects and strive for better than average marks in his class work:

English — 4 units

Intermediate Mathematics — 3 units (Studies should include basic algebraic, geometric, and trigonometric concepts and related skills.)

The following subject areas are recommended as an additional background for the academic program. A prospective candidate should try to take as many courses as possible which embrace these areas in the sciences, social sciences, and humanities.

#### *Sciences*

Biology  
General Science  
Chemistry  
Physics  
Advanced Mathematics  
Mechanical Drawing  
Aeronautics  
Electronics

#### *Social Sciences*

Economics  
American Government  
International Relations  
American History  
World History  
World Geography

#### *Humanities*

Foreign Languages  
Public Speaking  
Psychology  
Philosophy

Typing is recommended in addition to the above courses. Typewriters are available to Academy cadets for typing themes and reports.

A person who attends college in preparation for the Academy should concentrate on the same or related subject areas at the college level.

The Academy does not require specific school courses or credits for entrance. A candidate does not have to be a high school graduate to gain admittance. In most cases, however, one who has completed or is studying courses in the above subject areas will have a better chance of succeeding on the entrance examinations.

### ***Airmanship and Athletic Preparation***

The entrance examinations measure a candidate's motivation and aptitude for the Academy airmanship and athletic programs. A prospective candidate may prepare for these programs in the following general ways:

1. By maintaining a high degree of physical fitness through participation in sports and through proper care of health.
2. By engaging in school extracurricular activities, both athletic and non-athletic, to develop leadership skills. Participation in a high school or college Reserve Officer Training Corps Program should also be helpful in developing leadership qualities.

3. By gaining a background in aviation through studying the fundamentals and progress of aviation. Participation in the Civil Air Patrol should be helpful.

### ***High School Evaluation***

Candidates considered on a competitive basis for a cadet appointment will be evaluated on their high school academic achievement and leadership potential. Academic achievement is evaluated in terms of overall standing in class as well as the recommendations of school principals and teachers. Active participation and distinction in extracurricular activities serve as the principal criteria for evaluation of leadership potential. Some examples of leadership in extracurricular activities are as follows:

1. Presiding officers of classes, clubs, or student government.
2. Athletic participation and achievement.
3. Meritorious awards in athletic or non-athletic activities.
4. Attaining Eagle Scout rank.
5. Officer rank in the Reserve Officer Training Corps.
6. Managerial offices such as manager or editor of a school paper.
7. Participation in public speaking activities.
8. Participation and achievement in the Civil Air Patrol.

## **PREPARATORY SCHOOL FOR SERVICEMEN**

### ***Scope***

The Air Force Academy Preparatory School course is designed for young men in the Armed Services. Two schools are now being used for this purpose: (1) the Naval Academy Preparatory School at Bainbridge Naval Training Station, Maryland, which is approximately 40 miles northeast of Baltimore; (2) the Military Academy Preparatory School at Fort Belvoir, Virginia, which is approximately 30 miles south of Washington, D. C.

### ***Purpose***

The preparatory school course includes academic, physical, and military instruction. The course gives the serviceman an opportunity to prepare for the Academy entrance examinations on an equal basis with a civilian candidate who is still in high school or has recently been graduated. It also prepares the serviceman for the Academy curriculum of academic, airmanship, and athletic courses.

Classes begin in September and extend through May of each year.

## ***Application***

A member of any one of the Armed Services on extended active duty may apply for preparatory school through his unit commander. Details of application and eligibility are outlined in a joint Air Force, Army, and Navy regulation. (Specific regulation numbers are AFR 53-14, AR 350-59, BUPERS INST. 1510.80, NAVMC 1155.) A request for preparatory school should be submitted as soon as possible after May 1, 1960. The application period closes on August 15, 1960, for members of the Regular components.

Members of the Air Force Reserve and Air National Guard not on extended active duty may also make application for preparatory school. Applications should reach the Director of Admissions before May 31, 1960. Air National Guardsmen who are selected must then be enlisted in the Air Force Reserve. From Reserve status, candidates will be called to extended active duty to attend the Air Force Academy Preparatory School. Those who have not received basic training will be sent to Lackland Air Force Base for this purpose on August 1. Details concerning application of Reservists and National Guardsmen are contained in Air Force Regulation 53-14.

## ***Selection***

Selection of preparatory school students is accomplished by the Air Force Academy. Selection is based on the applicant's high school academic background, his athletic and non-athletic extracurricular activities, the recommendation of his commanding officer, and the Air Force Cadet Screening Test. Selection for preparatory school, or completion of the school, in no way guarantees the student an appointment to the Academy.

## **PREPARATORY SCHOLARSHIPS**

Two non-profit agencies, the Falcon Foundation and the Gertrude Skelly Trust, provide educational assistance programs to enable deserving young men to better qualify for admission to the Air Force Academy. Neither of these agencies has any official connection with the United States Air Force or the Air Force Academy.

### ***The Falcon Foundation***

The Falcon Foundation is dedicated solely to the assistance of highly motivated and qualified young men seeking admission to the Air Force Academy and a lifetime career in the Air Force. The



Foundation makes annual cash grants to selected preparatory schools in various parts of the nation, thereby enabling each of these schools to provide a limited number of individual scholarships to qualified and motivated young men who meet the eligibility requirements of the respective preparatory school and are unable to finance their education.

Applications for scholarships must be made directly to the preparatory school. A list of preparatory schools offering such scholarships may be procured upon written request to the Falcon Foundation, Post Office Box 611, Dallas, Texas.

### ***The Gertrude Skelly Trust***

The late Mrs. Gertrude Skelly of Tulsa, Oklahoma, wife of William G. Skelly, founder of the Skelly Oil Company, established this trust fund. It is administered by two Trustees: Mr. Harold C. Stuart, president of KVOO Radio and Television and former Assistant Secretary of the Air Force, and Mr. Russell F. Hunt, Executive Vice-President of the First National Bank and Trust Company, Tulsa, Oklahoma.

Scholarships from this trust fund will be awarded only to sons, adopted sons or step-sons of active, retired, or deceased *career* members of the Armed Forces of the United States. A young man should not apply unless his father was or is a *career* member of the Armed Forces.

Complete information on applications may be obtained by writing to The Gertrude Skelly Trust, Box 1349, Tulsa, Oklahoma.

# academy curriculum

## SUMMARY OF THE CURRICULUM

(In Credit Hours)

4th Class	Summer	3rd Class	Summer
Human Physiology	$\frac{1}{2}$	Field Study of Armed Forces	4
Basic Military Training	6		
Military Studies	$\frac{3}{4}$		
Introduction to Flying	$\frac{1}{4}$		
Physical Education	$1\frac{1}{2}$		
	<hr/>		
	9		

	Fall & Spring		Fall & Spring
Mathematics	11	Mathematics	6
Chemistry	6	Physics	6
Human Physiology	$2\frac{1}{2}$	History	6
History	6	Foreign Language	10
English	6	Political Science	5
Geography	$2\frac{1}{2}$	Psychology	$2\frac{1}{2}$
Physical Education	4	Economics	$2\frac{1}{2}$
	<hr/>	Physical Education	2
	38		<hr/>
			40

	May		May
Cartography	2	Military Studies	$1\frac{1}{2}$
Military Studies	$1\frac{1}{2}$	Leadership Studies	$1\frac{1}{2}$
Physical Education	$\frac{1}{4}$	Physical Education	$\frac{1}{4}$
	<hr/>		<hr/>
	$3\frac{3}{4}$		$3\frac{1}{4}$

**2nd Class***Summer*

Field Study of Overseas Areas	2 $\frac{3}{4}$
Duty with Basic Cadets	3
	<hr/>
	5 $\frac{3}{4}$

**1st Class***2nd Class May  
1st Class Summer*

Pilot Indoctrination	1 $\frac{1}{2}$
Astronautics	2 $\frac{1}{2}$
Duty with Air Force Unit	1 $\frac{1}{2}$
Military Studies	1
Physical Education	1 $\frac{1}{2}$
	<hr/>
	6

	<i>Fall &amp; Spring</i>
Engineering Drawing	2
Mechanics	6
Thermodynamics	6
English	3
Philosophy	3
Electrical Engineering	6
Law	5
Economics	2 $\frac{1}{2}$
Leadership Studies	2 $\frac{1}{2}$
Physical Education	3
	<hr/>
	39

	<i>Fall &amp; Spring</i>
Aerodynamics	6
Astronautics	7 $\frac{1}{2}$
Physics	3
Electrical Engineering	3
English	6
Political Science	6
Elective Program	
(Pilot Screening, Navigation Indoctrination, or	
Enrichment Courses)	2 $\frac{1}{2}$
Physical Education	1
	<hr/>
	35

	<i>May</i>
Military Studies	1 $\frac{1}{2}$
Field Study of Missile	
Installations	3 $\frac{1}{4}$
	<hr/>
	1 $\frac{1}{4}$

**GRAND TOTALS**

ACADEMIC PROGRAM	144 $\frac{1}{2}$
AIRMANSHIP PROGRAM	25 $\frac{1}{2}$
ATHLETIC PROGRAM	12 $\frac{1}{2}$
1st CLASS ELECTIVE PROGRAM	2 $\frac{1}{2}$
	<hr/>
	185

## PREScribed CURRICULUM

The Academy curriculum consists of a diversified range of courses to prepare the cadet for a broad scope of activity as an Air Force officer. The curriculum is divided into three phases of cadet education: the Academic Program supervised by the Dean of the Faculty, the Airmanship Program supervised by the Commandant of Cadets, and the Athletic Program supervised by the Director of Athletics.

Since the Academy has the same general educational objectives for all students, the framework of the curriculum is based on standardized or prescribed courses. A total of 185 credit hours is included in the four-year prescribed curriculum. This total is at least 40 hours greater than required for an undergraduate degree by most engineering schools and 60 hours above that of a liberal arts school. Careful organization of cadet time and utilization of the summer months for instruction make it possible for the Academy to provide the additional credit hours.

The annual terms are as follows: the fall term from September through December, the spring term from January through April, the May term during the month of May, and the summer term from June through August.

Academic courses are usually accomplished during the fall and spring terms. Physical education and athletics are spread throughout the year but concentrated during the fall and spring. Airmanship courses, which include field trips to military installations, are concentrated in the May and summer terms.

## ENRICHMENT PROGRAM

### *Objectives*

To allow for the wide variances in individual student abilities, preparation, and achievements, the Academy has developed a program of elective courses and major subjects beyond the prescribed curriculum known as the "Enrichment Program." The objectives of this program are:

1. To provide an opportunity for the cadet to advance at the fastest rate of which he is capable in the pursuit of excellence in academic achievement.
2. To stimulate the cadet with gifted mental ability to make the best possible use of his time and mind, and thereby to develop



habits and attitudes which will motivate him to continue the pursuit of excellence in his career as an Air Force officer.

3. To allow the cadet with prior college-level preparation to proceed from the level of his past achievements.

4. To offer the cadet an opportunity to specialize in graduate and undergraduate courses or to broaden his general education through elective course offerings.

5. To provide the Air Force with graduates who have had the opportunity to be educated to their maximum potential during four years as a cadet.

### ***Methods of Participation***

A cadet may participate in the enrichment program in any or all of the following ways:

*By Transfer Credit* — Any cadet who has had previous college experience will be required to have all transcripts submitted to the Academy Director of Admissions. All candidates selected for admission will be notified to submit this information prior to reporting to the Academy. If the records indicate an acceptable level of achievement in courses comparable to those in the Academy curriculum, the departments will grant transfer credit and exempt the cadet from those courses. The cadet must then substitute prescribed or enrichment courses with approximately the same credit hours.

*By Validation* — A cadet who has taken college-level courses offered in secondary or preparatory schools may be given credit for comparable prescribed or enrichment courses in the Academy curriculum. He must show that validation credit is warranted either through prior grades in those courses, scores on the College Board Advanced Placement Examinations, or grades on validation examinations administered at the Academy. The cadet must then substitute prescribed or enrichment courses with approximately the same credit hours.

*By Acceleration* — A gifted cadet, identified by his scores on the College Board Entrance Examinations, College Board Advanced Placement Examinations, or advanced placement tests administered at the Academy, is given the opportunity to take courses in the prescribed curriculum at an accelerated rate in order to free time in his schedule for substitute courses offered in the enrichment program. For example, through acceleration a cadet may complete

the two-year prescribed mathematics courses in one and one-half years or even in one year, according to his abilities.

*By Overload* — A gifted cadet also has the opportunity to take one or more extra courses, above the prescribed semester-hour load each semester, provided he maintains above-average academic grades in all prescribed courses.

### ***Majors Offered***

Through sufficient participation in the enrichment program, a cadet may major in one of four areas: Basic Sciences, with options in mathematics, physics, and chemistry; Engineering Sciences, with options in aeronautical engineering and electrical engineering; Public Affairs (a major offered primarily under the auspices of the Division of Social Sciences); and Western Culture (a major primarily under the auspices of the Division of Humanities). More specific requirements for each of the majors are shown under the respective division objectives which precede the division course listings.

There is no requirement that a cadet pursue a major, but he is encouraged to take a meaningful sequence of enrichment courses if he has the time and talent to do so. A cadet who receives a major will be more adequately prepared for graduate work.

### ***Master's Degree Plan***

In October 1959 the Dean of the Faculty proposed and the faculty adopted an extension of the enrichment program to permit selected cadets to obtain masters' degrees during four years at the Academy. Only cadets who have extensive validation credit will be prepared to work toward the advanced degree. The actual award of a master's degree will depend upon congressional authorization and proper accreditation.

## **GRADING**

A cadet's work in each course of instruction is graded on a percentage basis, with 70% being the lowest passing grade. His cumulative record in each course is posted weekly on class bulletin boards, along with a report of all cadets who are failing in one or more subjects. A cadet who is failing will be given a chance to remedy his grades by extra instruction and special examinations.

Each department gives grades at least once each week. Regular evaluation, coupled with the use of small class sections, makes it

possible for an instructor to give adequate attention to the individual difficulties of his cadet students. Scheduled and controlled periods of study insure that the cadets have adequate time for class preparation.

Each cadet receives a grade report at the end of each term. Copies of the report are sent to the cadet's parents, to his Senator or Representative (if he was nominated by a Member of Congress), and to his Air Officer Commanding.

Grade reports include: (1) the average grade the cadet attained in each course and his standing among all cadets taking the course; (2) credit hours earned; (3) his standing in conduct as determined by the number of demerits he received for violating rules and regulations.

If a grade report includes a notation "On the Superintendent's Merit List," this means that the cadet has completed the term with a grade average of 81% (80% if taking overload enrichment courses) in all courses of one credit hour or more. It also means that he ranks in the top 75% of his class in aptitude for commissioned service and in conduct.

If the grade report includes a notation "Distinguished Cadet," this shows that he was in the top 5% of his class in overall achievement during the preceding academic year.

## DEFICIENCY AND DISCHARGE

A cadet whose final grades at the end of a term of instruction fail to meet the required standards in any course, or a cadet who is deficient in conduct or aptitude for commissioned service, will be reported to the Academy Board. The Board, which is composed of key officers responsible for administering the programs of cadet education, will consider the cadet's case carefully and recommend one of the following actions to the Superintendent, based on the majority opinion:

1. *Condition.* That the cadet should be permitted to continue with his class upon condition that he remove the deficiency in a specified time and manner.
2. *Repeat Course.* That the cadet who has failed only one course should be permitted to continue with his class on the condition that he repeat the failed course during the following term or, for a course failed in the spring term, during his summer leave time.

3. *Turnback.* That the cadet should be temporarily suspended from the Academy and permitted to re-enter with the next succeeding class.

4. *Discharge.* That the cadet should be discharged from the Academy.

The type of decision that is made will depend upon the nature and seriousness of the deficiency. An Academy Board recommendation for discharge of a cadet, if approved by the Superintendent, will be submitted to the Secretary of the Air Force for a final decision.

## CLASSROOM BUILDINGS

All academic and airmanship lecture classes and the basic science laboratories are conducted in Fairchild Hall. The typical classroom is small, seating 12 to 16 cadets in a U-shape around the instructor. Large lecture rooms are available for consolidating classes and holding assemblies. Applied science laboratories are held in a separate building just south of Fairchild Hall. Physical education and athletics are held in the cadet gymnasium and adjoining athletic fields. Facilities are available for a variety of indoor and outdoor sports.

## COURSE LISTINGS

In the course listings that follow, prescribed and enrichment courses are shown by divisions and departments. Prescribed courses in the 100 series are designed for the Fourth Class (Freshman) level; the 200 series for the Third Class (Sophomore) level; the 300 series for the Second Class (Junior) level; and the 400 series for the First Class (Senior) level. Cadets participating in the enrichment program may take prescribed courses above the level of their class, either as substitutes for courses they are permitted to omit or as overload courses. Enrichment courses may be taken at any class level, provided the prerequisites are met.

Course numbers ending in 0 are summer term courses; those ending with the digit 1 are fall term courses; those ending with 2 are spring term courses; and those ending with 3 are May term courses. Enrichment course numbers have a second digit of 5 or above.

## PERSONNEL LISTINGS

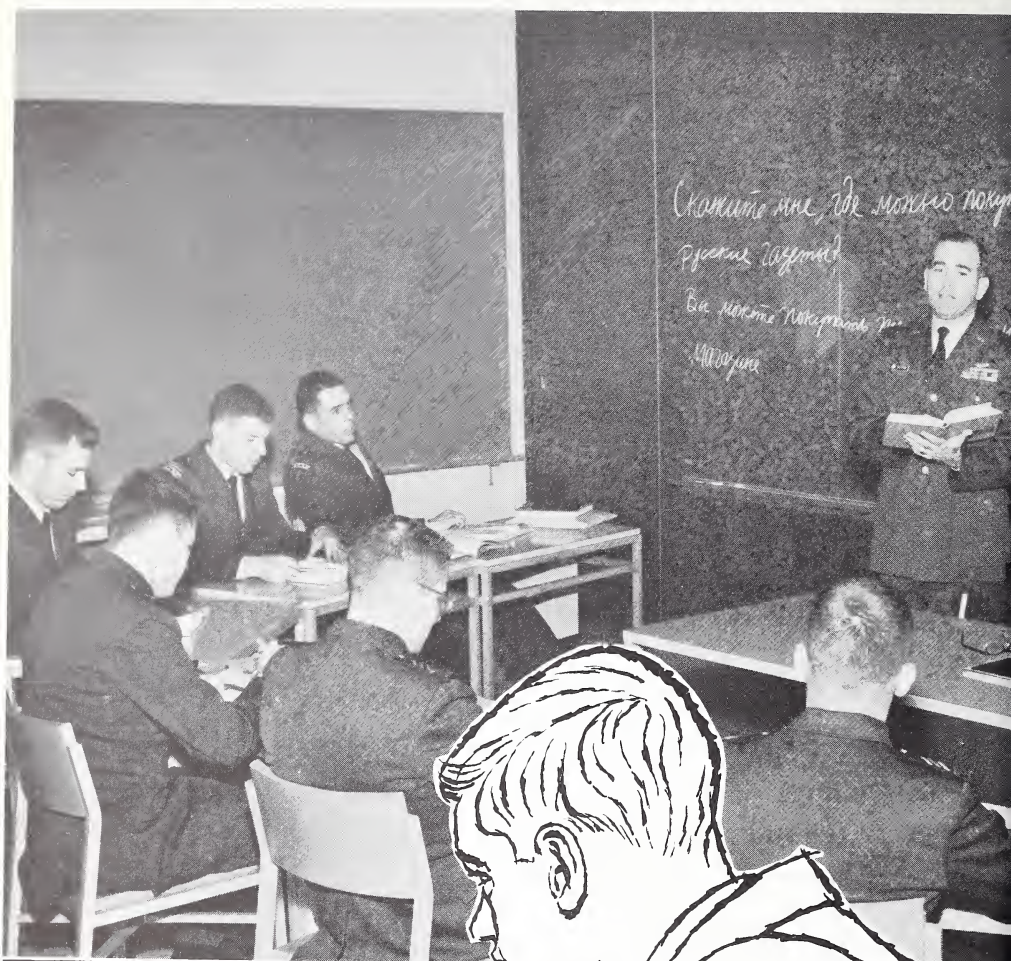
In the course listings that follow, each person in a staff or instructional position is listed by last name and duty assignment



within his department. A directory with complete names, duty assignments, and degrees held is located in the appendix of the catalog.

A majority of the staff, professors, and instructors at the Academy are Air Force officers. Serving in a liaison capacity in the departments are officers from the United States Army, Navy, and Marine Corps and from the Royal Air Force, Royal Australian Air Force, and Royal Canadian Air Force.

The normal tour of duty for instructional personnel at the Academy is four years. There are 21 key faculty positions authorized to be occupied by professors with permanent tenure.



*academic program*





## OFFICE OF THE DEAN OF THE FACULTY

*Dean of the Faculty:* Brig. General McDermott

*Assistant to the Dean:* Lt. Colonel Ferrari

*Director of Library:* Lt. Colonel Fagan

*Faculty Secretary:* Major Hitchens

*Faculty Executive:* Major Valpey

*Director of Audio-Visual Services:* Captain Hitchens

*Director of Academic Supply:* Captain Modica

*Aide de Camp:* Captain Kimball

The Academic Program provides four years of undergraduate study leading to a Bachelor of Science degree. The purpose of the program is to furnish each cadet with a broad, balanced education in liberal arts, science, and engineering studies. With this well-



rounded educational background, an Academy graduate should be prepared to deal successfully with a diversity of intellectual problems he will encounter as an Air Force officer.

## **DIVISION OF BASIC SCIENCES**

*Division Chairman:* Colonel Ault

The Division of Basic Sciences offers courses in mathematics, chemistry, physiology, and physics. The cadet develops knowledge and skills in basic subjects which are necessary to an understanding of science in the modern world, with particular attention to the background necessary for an Air Force career. Laboratory work develops the scientific method of obtaining results through accurate observation, critical thinking, and logical reasoning. Thirty-five and one-half credit hours in basic sciences are included in the prescribed Academy curriculum. Cadets who wish to qualify for a Major in Basic Sciences have considerable variation in the enrichment courses they may take. There are several optional major plans with concentrated study in mathematics, physics, or chemistry.

## **DEPARTMENT OF CHEMISTRY**

*Professor and Head of Department:* Colonel Woodyard

*Associate Professors:* Lt. Colonel Kee, Major Taylor

*Assistant Professor:* Captain Anderson

*Instructors:* Majors Cude, Sprinkel; Captains Agnew, Banks, Hammock, Keilt, King, Parlett, Schmid, Stevens, Walford, Whipple; 1st Lieutenant Winsted

*Assistant Professor of Physiology:* Captain Goodner

*Instructors in Physiology:* Major McFarland; Captain Schock; 1st Lieutenants Bartleson, Raun, Smith

### ***Prescribed Courses***

*Chemistry 100. Introduction to Physiological Indoctrination*

Introduction to the physical characteristics of the atmosphere and their effects on the airman. Includes a simulated flight in an altitude chamber and the award of a passenger card upon successful completion of the course.

*½ Credit Hour*

*Chemistry 101-102. General Chemistry*

Kinetic-molecular theory, periodic law, properties of solutions, chemical formulas, acid-base theory, chemical reactions, chemical equilibria, the concept of equivalent weights and the combining capacity of



the elements. An introduction to the fields of organic, nuclear, and analytical chemistry.

6 Credit Hours (3 each term)

*Chemistry 111. Human Physiology*

Introduction to fundamental principles of physiology, health and disease, physiological indoctrination, aviation physiology, and the problems of survival in space.

2½ Credit Hours

**Enrichment Courses**

*Chemistry 251-252. Analytical Chemistry*

May replace Chemistry 101-102. Atomic structure; chemical bonding; ionic equilibria; solubility product constant, pH; acid-base theory; oxidation-reduction theory; volumetric, gravimetric, qualitative and instrumental analysis; analysis of data. Prerequisites: Chemistry 101-102 or equivalent.

6 Credit Hours (3 each term)

*Chemistry 351-352. Introductory Physical Chemistry*

May replace Chemistry 101-102. Atomic and molecular structure, states of matter, chemical thermodynamics, chemical kinetics. Prerequisites: Chemistry 101-102, Mathematics 101-102 or equivalents.

6 Credit Hours (3 each term)

*Chemistry 353. Theoretical Inorganic Chemistry*

Atomic structure to include build-up of periodic table and introduction to fundamental wave mechanics. Chemical bonding including elementary quantum mechanics for covalent compounds, hybridization, ionic crystals and coordination compounds. Homogeneous chemical kinetics including collision and absolute rate theories. Three credit hours obtained by special reports in the aforementioned areas. Prerequisites: Chemistry 101-102, Mathematics 201-202, Physics 211-212 or equivalents; Chemistry 351-352 desirable.

2½-3 Credit Hours

**DEPARTMENT OF MATHEMATICS**

*Professor and Head of Department:* Colonel Ault

*Associate Professors:* Lt. Colonels Elrick, Hempsted, Querry

*Assistant Professors:* Major Banister; Captains Campbell, Eisenman, Gall, Johnson, R. H. Johnston, Marsh, Milliken, Prince, Slizeski, Vegna

*Instructors:* Majors Moorhead, Smith; Captains Anlian, Best, Betzer, Callas, Cragin, Erbschloe, Harrison, Healy, Hoover, Howell, V. L. Johnston, Lambert, Oesch, Patton, Rollins, Rounding, Ryan, Steger, Sullivan, Welch; 1st Lieutenant Barr

### ***Prescribed Courses***

#### *Mathematics 101. College Algebra and Plane Trigonometry*

Mathematical processes and practical applications in the fundamentals of college algebra, plane trigonometry, statistics, and use of the slide rule.

5½ Credit Hours

#### *Mathematics 102. Analytic Geometry and Introduction to Calculus*

Mathematical processes and practical applications in the fundamentals of spherical trigonometry, plane and solid analytic geometry, and differential and integral calculus for simple functions.

5½ Credit Hours

#### *Mathematics 201-202. Calculus and Introduction to Differential Equations*

A continuation of Mathematics 102. Differential and integral calculus of algebraic and transcendental functions, infinite series, partial differentiation, multiple integration, and an introduction to differential equations.

6 Credit Hours (3 each term)

### ***Enrichment Courses***

#### *Mathematics 151. Statistics*

Fundamentals of descriptive and inductive statistics including graphs, measures of central tendencies, variation, symmetry, theoretical distributions, probability, sampling, prediction and correlation of qualitative data with applications to operations and systems analysis, quality control, and business. Prerequisite: Mathematics 101 or equivalent.

2½ Credit Hours

#### *Mathematics 251. Differential Equations*

A continuation of differential equations beyond areas covered in Mathematics 201-202. Prerequisite: Mathematics 202.

2½-3 Credit Hours

#### *Mathematics 252. Vector Analysis*

Vector algebra and vector calculus including vector notation, algebraic manipulations of vector quantities, vector differentiation, and integration with related topics and applications.

2½ Credit Hours

#### *Mathematics 351. Advanced Calculus*

Selected topics from advanced calculus including Fourier series, Laplace transforms, and complex variables. Prerequisite: Mathematics 251.

2½ Credit Hours

*Mathematics 352. Introduction to Machine Computation*

The theory and use of digital computers. Prerequisite: permission of the department.

2 Credit Hours

## DEPARTMENT OF PHYSICS

*Professor and Head of Department:* Colonel Higdon

*Associate Professors:* Lt. Colonel Bowen; Major Kaericher

*Assistant Professors:* Majors Berge, Hagin, Keller

*Instructors:* Lt. Colonel Crosland; Major Brock; Captains Alderman, Butt, Custer, Gridley, Humphries, Reynolds; First Lieutenant Axelrod

### **Prescribed Courses**

*Physics 211. General Physics*

Fundamental principles of statics, dynamics, fluid mechanics, and heat.

3 Credit Hours

*Physics 212. General Physics*

Fundamental principles of sound, light, optics, electricity, and magnetism.

3 Credit Hours

*Physics 401. Introduction to Modern Physics*

Introduction to the fundamental concepts and the experimental basis of modern physics. Topics include properties of atoms and nuclei, origin of spectra, fundamental particles, nuclear reactions, natural and artificial radioactivity, quantum theory, relativity, fission, and thermonuclear reactions. Emphasis is on analysis and solution of problems. Prerequisites: Physics 211-212.

3 Credit Hours

### **Enrichment Courses**

*Physics 352. Nuclear Physics*

Selected topics leading to an understanding of the nuclear structure of atoms. Nucleons, particle accelerators, and nuclear reactions are covered. Prerequisite: Physics 401 or equivalent.

2½-3 Credit Hours

*Physics 451. Neutron Physics*

Selected topics covering nuclear fission, chain reaction, nuclear reactor design principles, and reactor technology. Particular attention is given to latest developments in design and construction of power, production, and propulsion reactors. Emphasis is on problem solving and fundamental understanding. Prerequisite: Physics 401 or equivalent.

2½-3 Credit Hours

## DIVISION OF APPLIED SCIENCES

*Division Chairman:* Colonel Dane

The Division of Applied Sciences offers courses in aerodynamics, astronautics, electrical engineering, mechanics, and thermodynamics. These engineering sciences are important in preparation for Air Force career fields in manned aircraft or guided missiles. Emphasis is placed on Air Force applications to give the cadet a basic knowledge of modern weapon systems and the problems associated with their complexities. In laboratory work the cadet enhances his ability to apply the scientific method to the solution of problems and the evaluation of experiments. Thirty-nine credit hours in the applied sciences are included in the prescribed Academy curriculum. Cadets who wish to qualify for a major in Engineering Sciences have considerable variation in enrichment courses they may take. There are several optional major plans with concentrated study in aeronautical engineering or electrical engineering.

## DEPARTMENT OF AERONAUTICS

*Professor and Head of Department:* Colonel Clementson

*Associate Professors:* Lt. Colonels Polve, Rex

*Assistant Professors:* Majors Goppert, Lopez, Yale; Captains Anderson, Bretting

*Instructors:* Lt. Colonels Crocker, Ingham; Major Steiger; Captains Brantley, Chrisinger, Hamilton, Loomis, Naleid, Niblack

### ***Prescribed Courses***

*Aeronautics 301. Fundamental Thermodynamics*

Classical thermodynamics treating the various phenomena of energy, with particular reference to laws which govern the transformation of heat into useful work and power.

3 Credit Hours

*Aeronautics 302. Thermodynamic Principles*

Thermodynamic principles as they apply to air conditioning, refrigeration, and power plants, with emphasis on gas turbines and rocket motors used in aircraft and weapons. An introduction to heat transfer.

3 Credit Hours

*Aeronautics 401. Basic Aerodynamics*

Fundamental concepts of analyzing subsonic and supersonic air flow. Includes airfoil theory and wing theory.

3 Credit Hours



*Aeronautics 402. Applied Aerodynamics*

Power required and power available curves; longitudinal and lateral static stability; control forces and hinge moments of several configurations; drag estimation and the theory of lift.

3 Credit Hours

**Enrichment Courses**

Students who desire additional instruction in aerodynamics may substitute the special course sequence of Aeronautics 451 and 456 for Aeronautics 401, and Aeronautics 464 for Aeronautics 402.

*Aeronautics 451. Fluid Mechanics*

Fundamental concepts of describing and analyzing the flow of fluids about an immersed body. Includes the flow of incompressible and compressible fluids in pipes, the theory of dimensional analysis and similitude, and an introduction to potential flow theory. Prerequisite: Mechanics 331.

2½-3 Credit Hours

*Aeronautics 455. Introduction to Heat Transfer*

Basic phenomena of energy transport by conduction, convection, and radiation heat transfer in solids and viscous fluids. Special problems involving heat transfer such as rocket motor design, aerodynamic heating, and heat exchangers.

2½ Credit Hours

*Aeronautics 456. Basic Aerodynamics*

Development of fundamentals of subsonic and supersonic flow, including stream functions, velocity potential, vortex systems, and finite wing theory. Prerequisite: Aeronautics 451.

3 Credit Hours

*Aeronautics 457. Supersonic Aerodynamics*

Supersonic flow, hypersonic and transonic flow problems, and an introduction to boundary layer problems and turbulence. Prerequisite: Aeronautics 456.

3 Credit Hours

*Aeronautics 460. Aircraft Propulsion*

Momentum theorem; one dimensional thrust equation as applied to turbojets, turboprops, ramjets, and rockets; cycle analysis for various propulsive ducts; estimated performance charts. Prerequisite: Aeronautics 301.

2½ Credit Hours

*Aeronautics 461. Elements of Rocket Propulsion*

Chemical rocket motors, nozzle theory, heat transfer, thrust chambers, liquid and solid propellants, performance and testing. Advanced rocket propulsion systems. Prerequisite: Aeronautics 301.

2½ Credit Hours

*Aeronautics 462. Aircraft Gas Turbines*

Problems associated with fluid flow, blading, stresses, combustion, and matching. Performance characteristics for both design and off-design conditions including transient and steady-state cases. Prerequisite: Aeronautics 301.

2½ Credit Hours

*Aeronautics 463. Applied Thermodynamics*

May replace Aeronautics 302. Includes additional applications of the same topics treated in Aeronautics 302. Prerequisite: Aeronautics 301.

4 Credit Hours

*Aeronautics 464. Preliminary Design of Airlift Vehicles*

Fundamentals of design, including a preliminary design of an advanced airlift vehicle. Includes analysis of power required and power available curves, longitudinal and lateral static stability, steady state maneuvers, control forces, and hinge moments. Prerequisites: Aeronautics 456 or 401.

4 Credit Hours

## DEPARTMENT OF ASTRONAUTICS

*Professor and Head of Department:* Colonel Gibson

*Associate Professor:* Lt. Colonel Collier

*Assistant Professor:* Captain James

*Instructors:* Captains Anderson, Barnes, Bate, Johnson, LaVally, Thomas, Wilmoth

### *Prescribed Courses*

*Astronautics 411-412. Elements of Astronautics*

The physics of ballistic missiles, satellites, and space vehicles. Includes study of trajectories (powered, free flight, and re-entry); propulsion principles; weapon systems design study and survey of related areas such as guidance, control, test techniques, new propulsion systems.

5 Credit Hours (2½ each term)

*Astronautics 421. Inertial Measuring Instruments and Feedback Control Systems*

Basic techniques of feedback control, using Laplace transforms, demonstrated by the analysis of mechanical, electrical, hydraulic, pneumatic, and thermal control systems. Determination of systems stability and time response to step, ramp, and impulse forcing functions, substantiated by analog computer exercises. Gyroscopic and accelerometer theory leading up to instrumented inertial and "Schuler

tuned" stable platforms, supplemented by simple gyro and accelerometer experiments.

2½ Credit Hours

*Astronautics 422. Ballistic and Space Vehicle Guidance*

Philosophy of inertial guidance systems for ballistic and space vehicles proceeding from ballistic free-flight reference trajectories through determination of guidance constants, generation of steering signals, inertial measurements, gravity compensation, and composite inertial guidance systems. Comparison of inertial to radio inertial (command) guidance systems. Interplanetary guidance schemes including methods of instrumenting for mid-course and terminal space guidance.

2½ Credit Hours

**Enrichment Courses**

*Astronautics 451. Advanced Astronautics*

Study of guidance principles for ballistic missiles and space vehicles with emphasis on self contained systems.

2½ Credit Hours

**DEPARTMENT OF ELECTRICAL ENGINEERING**

*Professor and Head of Department:* Colonel Wilson

*Associate Professors:* Lt. Colonels Long, Oliver

*Assistant Professors:* Majors Basham, Hagin, Lowry; Captain Singleton

*Instructors:* Major Manlove; Captains Green, Quirk, Wilson

**Prescribed Courses**

*Electrical Engineering 321. Circuits and Machinery*

Circuit analysis using phasor representation and complex algebra to include polyphase circuits, transformers, and introduction to electrical machinery, both AC and DC.

3 Credit Hours

*Electrical Engineering 322. Machinery and Basic Electronics*

Continuation of study of electrical machinery followed by an introduction to electronics to include vacuum tubes and vacuum tube amplifiers.

3 Credit Hours

*Electrical Engineering 401. Intermediate Electronics*

Electronics applications to include the use of high vacuum and gas tubes in oscillators, wave-shaping circuits, radio transmitters and receivers, and television receivers. Introduction to transistors.

3 Credit Hours

### ***Enrichment Courses***

#### ***Electrical Engineering 351. Circuit Analysis***

A more detailed treatment of circuit analysis than is offered in Electrical Engineering 321. Includes both loop and node methods of writing network equations and increased emphasis upon Thevenin's theorem, the principle of superposition, resonance, delta-wye and wye-delta transformations, and both transient and steady-state response of networks. Prerequisite: Electrical Engineering 321.

2½ Credit Hours

#### ***Electrical Engineering 352. Electrical Machinery***

A more comprehensive treatment of electrical machinery than is offered in Electrical Engineering 321. More emphasis is placed on equivalent circuits and their use in analysis of machinery performance. Attention is given to commutation, compensating windings, generated harmonics, saturation, etc., as well as to the basic concepts of machinery performance. Prerequisite: Electrical Engineering 321.

3 Credit Hours

#### ***Electrical Engineering 353. Advanced Electronics***

A more comprehensive treatment of electronics than is offered in Electrical Engineering 322. Emphasis is placed upon the AC equivalent circuits of electronic circuits and their solution to provide information as to system performance. In addition to detailed analysis of vacuum tube circuits, an introduction to transistors and magnetic amplifiers is included. Prerequisite: Electrical Engineering 322.

2½ Credit Hours

#### ***Electrical Engineering 451. Servomechanisms***

An introduction to basic techniques of servomechanism analysis. Application of Laplace transforms together with signal flow diagrams to represent response; an evaluation of complete servo systems and the effects of viscous damping and compensating networks. Prerequisites: Mathematics 351, Electrical Engineering 321-322.

2½ Credit Hours

#### ***Electrical Engineering 452. Fundamental Radar System Design Considerations***

Provides an understanding of problems facing the radar engineer. A critical analysis of the parameters of the radar range equation; the function of each component of the system such as automatic tracking, wave-shaping, and pulse-forming networks. Prerequisites: Mathematics 351, Electrical Engineering 321-322.

2½ Credit Hours



*Electrical Engineering 453. Analog Computer Techniques*

Analog computer techniques as applied to the solution of differential equations arising in engineering problems. Topics considered are electronic computing circuits, scale factors, and time scales. Emphasis is placed upon use of equipment in the solution of typical problems. Prerequisites: Mathematics 351, Electrical Engineering 321-322.

2½ Credit Hours

## DEPARTMENT OF MECHANICS

*Professor and Head of Department:* Colonel Higdon

*Associate Professors:* Lt. Colonel Standifer; Major Valpey

*Assistant Professors:* Majors Barricklow, Marvin; Captains Bonanno, Browne, Popisil, Riedel; 1st Lieutenant Christiansen

*Instructors:* Captains Baldner, Gray, Neyhart, Tandler

### **Prescribed Courses**

*Mechanics 321. Basic Engineering Drawing*

Develops ability to read and understand technical drawings and to visualize objects in space. Includes freehand sketching, oblique and isometric drawing, orthographic projection, descriptive geometry, intersections and developments, sections, conventions, dimensioning, fasteners, aircraft working drawings, and construction of charts and graphs.

2 Credit Hours

*Mechanics 331-332. Engineering Mechanics and Strength of Materials*

The principles of statics, dynamics to include the free body diagram concept, the equations of equilibrium, centroids, moments of inertia, kinematics, kinetics, mechanical vibrations. Strength of materials includes centric, torsional, and flexural loadings, columns, principal stresses, and some materials testing laboratory.

6 Credit Hours (3 each term)

### **Enrichment Courses**

Mechanics 351, 352, and 353 may replace Mechanics 331-332.

*Mechanics 351. Statics*

The principles of statics to include the free body diagram concept, the equations of equilibrium, centroids, moments of inertia, and the method of work.

2-3 Credit Hours

*Mechanics 352. Dynamics*

The principles of dynamics to include kinematics and three methods

of solving kinetics problems: (1) force, mass, and acceleration; (2) work and energy; (3) impulse and momentum. Mechanical vibrations are also studied. Prerequisite: Mechanics 351.

2-3 Credit Hours

*Mechanics 353. Strength of Materials*

The principles of mechanics of materials to include centric, torsional, flexural, repeated and dynamic loads, columns, principal stresses, and some materials testing laboratory. Prerequisite: Mechanics 351.

2-3 Credit Hours

*Mechanics 354. Materials Testing Laboratory*

Research testing and acceptance testing of metallic and non-metallic materials used in Air Force construction. Prerequisite: Mechanics 332 or 353.

1-2 Credit Hours

*Mechanics 355. Properties of Engineering Materials*

Properties of engineering materials oriented toward the special problems of materials used in manufacturing aircraft and missiles. Emphasis is placed on the fundamental science of materials including theory of solids, behaviour under load, deterioration, and theory of mechanical testing. Prerequisites: Mechanics 332 or 353.

2-3 Credit Hours

*Mechanics 356. Advanced Strength of Materials*

Additional topics in mechanics of materials and materials testing laboratory pertaining to aircraft structures. Prerequisite: Mechanics 332 or 353.

2-3 Credit Hours

## DIVISION OF HUMANITIES

*Division Chairman:* Colonel Moody

The division of Humanities offers courses in English, philosophy, foreign languages, and history. Through these studies the cadet develops the skills of speaking and writing effective English; acquires an appreciation of literature; develops an understanding of major philosophical problems; attains facility in understanding and speaking a foreign language; and acquires a knowledge of our Western heritage and contemporary world civilization. Forty credit hours in the humanities are included in the prescribed Academy curriculum. Cadets who wish to qualify for a major in Western Culture must complete or validate all of the prescribed courses in this division and in addition take the following enrichment courses:

<i>Courses</i>	<i>Credit Hours</i>
Advanced Foreign Language	5
English 451-452 (Introduction to the Fine Arts)	5
History 454 (Intellectual History)	2½
Electives in the Humanities Division	4½
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## DEPARTMENT OF ENGLISH

*Professor and Head of Department:* Colonel Moody

*Associate Professors:* Lt. Colonels Jackson, Linn, Thompson; Majors Carpenter, Cox, Weese

*Assistant Professors:* Majors Miner, Roberts; Captains Briand, Cook

*Instructors:* Majors Barnett, Lucas; Captains Bacon, Berthelot, Henney, Miller, Powell, Vollman; 1st Lieutenants Bauer, Haney, Kitch, Wakin

### *Prescribed Courses*

*English 101-102. Composition, Speech, and Introduction to Literature*

Writing, speaking, and an introduction to literature. Major emphasis is upon development of a clear, forceful prose style. The cadet writes a number of themes and one research paper; presents speeches of varying length; reads and analyzes several short stories.

6 Credit Hours (3 each term)

*English 301. Problems in Philosophy*

A study of major philosophical problems such as the nature of man, the nature of knowledge, the nature of values, and the nature of social responsibilities; based on readings from such eminent philosophers as Plato, Aristotle, Aquinas, Kant, and Mill.

3 Credit Hours

*English 302. Masterworks of Western Literature: Homer through the Sixteenth Century*

Reading and analyzing some of the masterworks of Western literature dating from the period of Homer through the sixteenth century. Such major writers as Homer, Aeschylus, Sophocles, Aristophanes, Chaucer, and Shakespeare are studied. Four essays and two speeches are required.

3 Credit Hours

*English 401. Masterworks of Western Literature: Seventeen-Nineteenth Centuries*

Reading and analyzing some of the masterworks of Western literature in the seventeenth, eighteenth, and nineteenth centuries. Such major writers as Donne, Milton, Voltaire, Keats, Flaubert, and Browning are studied. Four essays and two speeches are required.

3 Credit Hours

*English 402. Masterworks of Modern Western Literature*

Reading and analyzing some of the masterworks of Western literature from the late nineteenth century to the present. Such major writers as Whitman, Twain, Dostoyevsky, Giraudoux, Miller, T. S. Eliot, Frost, Hemingway, Faulkner, and Aldous Huxley are studied. Four essays and two speeches are required.

3 Credit Hours

**Enrichment Courses**

In addition to the following enrichment courses, period and genre courses and tutorials designed for individual cadets may be offered. The list below does not include all enrichment courses offered, but does indicate the variety of course offerings.

*English 151. Composition and Speech*

Advanced expository writing, the library research paper, and public speaking. (Cadets who have successfully completed freshman English at some other institution or who demonstrate exceptional ability in English substitute this course for English 102, after validation of English 101.)

3 Credit Hours

*English 152. Masterworks of Modern Western Literature*

Contemporary literature studied by types. Includes instruction in modern short stories, poetry, the novel (Wolfe, Faulkner, Hemingway, Orwell), and the drama (Ibsen, Shaw, Miller, O'Neill). (Cadets who have successfully completed English 151 substitute this course for English 402.)

3 Credit Hours

*English 251. Survey of English Literature: Beginnings to Eighteenth Century*

Historical study of the literature of England from its beginnings to the eighteenth century, with concentration on writers not included in the prescribed literature courses. Such works and writers as the medieval ballads, Spenser, Bacon, Milton, Dryden, Swift, Steele, Addison, and Pope are studied. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours



*English 252. Survey of English Literature: Eighteenth-Twentieth Centuries*

Historical study of English literature from the eighteenth century to the present, with concentration on writers not included in the prescribed literature courses. Such writers as Johnson, Boswell, Burns, Wordsworth, Coleridge, Byron, Shelley, Carlyle, Tennyson, Arnold, and Hardy are studied. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours

*English 351. Public Speaking*

Informative and persuasive speaking. Approximately fifteen speeches, five to twenty minutes in length, are required. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours

*English 352. Nineteenth Century American Literature*

Reading and analyzing representative works of some major nineteenth century American writers not included in the prescribed literature courses. Such authors as Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman, Twain, Howells, James, Dickinson, and Adams are studied. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours

*English 353. Shakespeare*

An intensive study of seven Shakespeare plays not included in the prescribed literature courses. Plays selected represent periods of Shakespeare's development and include comedies, histories and tragedies. Emphasis on plot development, theme, character development, and style. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours

*English 354. Ethics*

A survey of major ethical problems and the answers advanced by such major philosophers as Plato, Aquinas, Kant, and Hume, with applications to current moral issues. (This course may be substituted for English 301.)

2½ Credit Hours

*English 358. Modern Drama*

Reading and analyzing representative works of some major modern dramatists not included in the prescribed literature courses. Such authors as Ibsen, Maeterlinck, Rostand, Chekhov, Gorki, Synge, Barrie, Galsworthy, O'Neill, and Anderson are studied. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours

*English 359. Modern Novel*

Reading and analyzing representative works of some major modern novelists not included in the prescribed literature courses. Such authors as Wells, Conrad, Bennett, Galsworthy, Dreiser, Joyce, Fitzgerald, and Hemingway are studied. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours

*English 451. Introduction to the Fine Arts*

Provides the basis for an understanding of painting, sculpture, and architecture beginning with the classical period and extending through the Renaissance. The course includes a consideration of style, medium, organization, and techniques of analysis, together with an examination of the works of such representative figures as Giotto, Botticelli, Leonardo da Vinci, Michelangelo, Raphael, and El Greco. Cadets do related projects in tempera, clay, and oils. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours

*English 452. Introduction to the Fine Arts*

A continuation of English 451, providing a basis for an understanding and appreciation of painting, sculpture, architecture, and music beginning with the baroque styles and continuing through to the present day. Representative artists include Rembrandt, Reynolds, Gainsborough, the Impressionists, Cezanne, Van Gogh, Picasso, Chagall, and Kandinski. Among the musicians studied are Bach, Mozart, Beethoven, Tchaikovsky, Debussy, Stravinsky, Bartok and Schoenberg. Cadets do four oil paintings demonstrating various styles. Prerequisites: English 101-102 or equivalent. English 451 is recommended but not mandatory.

2½ Credit Hours

*English 455. Great Books: Virgil through the Seventeenth Century*

Study and discussion of some of the masterpieces of world literature in translation. Concentration on writers not included in the prescribed literature courses. Such writers as Virgil, Dante, Boccaccio, Rabelais, Cellini, Montaigne, Cervantes, and Moliere are studied. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours

*English 456. Great Books: Eighteenth Century to Date*

Study and discussion of some of the masterpieces of world literature in translation. Concentration on writers not included in the prescribed literature courses. Such writers as Rousseau, Goethe, Tolstoy, Chekhov, Joyce, and Mann are studied. Prerequisites: English 101-102 or equivalent.

2½ Credit Hours

## DEPARTMENT OF FOREIGN LANGUAGES

*Professor and Head of Department:* Colonel Holcomb

*Associate Professors:* Lt. Colonel Miele; Major Bednarski

*Assistant Professors:* Captains Barnett, Jackson, Steffel; 1st Lieutenant Costa

*Instructors:* Majors Castro, Junod, Wildman; Captains Anderson, Blum, Carlone, Carney, Davison, Frier, Geneste, Green, Hammond, Ortiz-Lopez, Roche, Ryan, Winger; 1st Lieutenants Gregory, Suzdaleff

### ***Prescribed Courses***

Each cadet must take ten credit hours in one of the prescribed course offerings. Objectives of the foreign language courses are: (1) to cultivate in cadets, in the following order of priority, a reasonable proficiency in understanding, speaking, reading, and writing a foreign language; (2) to give cadets an introduction to the culture and customs of a foreign country. Reading materials based on cultural topics make a significant contribution toward achieving the second departmental objective. The aural-oral method of instruction is employed in language classes, and audio-visual and electronic teaching aids are used liberally.

Each of the following language courses carries ten credit hours, evenly divided between the two terms:

*French 211-212. Elementary and Intermediate French*

*German 211-212. Elementary and Intermediate German*

*Russian 211-212. Elementary and Intermediate Russian*

*Spanish 211-212. Elementary and Intermediate Spanish*

### ***Enrichment Courses***

Literature survey courses are available to cadets who wish to further their knowledge of one or more languages. Reading and oral discussion of the literature are accomplished in the languages.

Each of the following language courses carries five credit hours, evenly divided between the two terms.

*French 351-352. Survey Course in French Literature*

*German 351-352. Survey Course in German Literature*

*Russian 351-352. Survey Course in Russian Literature*

*Spanish 351-352. Survey Course in Spanish Literature*

## DEPARTMENT OF HISTORY

*Professor and Head of Department:* Lt. Colonel Ruenheck

*Associate Professors:* Lt. Colonel Kerig; Majors Braden, Hitchens, Kirkpatrick; Captain Morrisey

*Assistant Professors:* Lt. Colonel Downs; Majors Erdmann, Tway; Captains Eaton, Richardson, Shultz

*Instructors:* Captains Baulch, Clelland, Crabbe, Flammer, Hostetter, Hurley, Julian, Murray, Schlight, Simons, Smith, Sutch, Thelander, Thorpe, Wasson, Zook

### ***Prescribed Courses***

#### *History 111. Modern European History*

A survey of European history from 1500 A.D. to the present, with introductory material to portray the continuity of European development from Graeco-Roman times through the medieval period.

3 Credit Hours

#### *History 112. History of the United States*

A study of the major governmental, social, economic, cultural, diplomatic, and ideological developments of the American nation from 1783 to the present. Emphasis placed on the evolution of democratic ideas and institutions and the impact on modern history of emergence of the United States as a world power.

3 Credit Hours

#### *History 211. Military History*

The scope and complexity of war. Includes the historical development and analysis of military principles, theory, trends, strategy, doctrine, weapons, organization, logistics, and tactics. Covers military affairs and civil-military relations, with emphasis upon the major wars of the twentieth century during which aerial warfare emerged.

3 Credit Hours

#### *History 212. History of Latin America*

The discovery, conquest, and growth of Spanish and Portuguese America. Emphasizes political, social, economic, and cultural institutions since the Wars of Independence. (History 222 or 232 may be substituted for this course.)

3 Credit Hours

#### *History 222. History of the Far East*

Development of civilizations of Asia with particular emphasis on China and Japan. Emphasizes the fundamental cultural institutions of these areas and the political, social, and economic effects of the



nineteenth and early twentieth century relationships with Western powers. Implications for contemporary tensions are stressed. (History 212 or 232 may be substituted for this course.) 3 Credit Hours

*History 232. History of Russia*

Survey of the political and social development of the Russian nation. Emphasizes the Bolshevik Revolution, the subsequent history of the Communist State, and Soviet foreign relations since World War II. (History 212 or 222 may be substituted for this course.) 3 Credit Hours

**Enrichment Courses**

2½ Credit Hours may be extended to 3 Credit Hours for cadets who undertake special projects.

*History 251. History of Russia.*

Survey of the political and social development of the Russian nation. Emphasizes the Bolshevik Revolution, the subsequent history of the Communist State, and Soviet foreign relations since World War II. 2½ Credit Hours

*History 252. History of the Middle East*

Politico-social survey of developments in the Middle East, particularly during the twentieth century. Emphasizes the strategic importance of the Middle East in the present world struggle. 2½ Credit Hours

*History 253. History of the Far East*

Development of civilizations of Asia with particular emphasis on China and Japan. Emphasizes the fundamental cultural institutions of these areas and the political, social, and economic effects of nineteenth and early twentieth century relationships with Western powers. Implications for contemporary tensions are stressed. 2½ Credit Hours

*History 351. United States Diplomatic History*

Survey of American diplomatic history from the Revolution to the present. Stresses the evolution of fundamental foreign policies such as the Monroe Doctrine, Open Door, Freedom of the Seas, and Pan-Americanism. 2½ Credit Hours

*History 352. History of Latin America*

The discovery, conquest, and growth of Spanish and Portuguese America. Emphasizes political, social, economic, and cultural institutions since the Wars of Independence. 2½ Credit Hours

### *History 354. Comparative Social Systems*

An analysis of social structure including kinship, community, and other principles of organizing social life. Comparisons of non-Western with Western societies. Comparative cultural patterns with stress on the North Atlantic civilizations. Discussion and analysis of contemporary theory in social anthropology. Such facets as foreign views of the United States, American impressions of Europe, and European reactions to other nationalities on the Continent may be undertaken through collateral readings.

*2½ Credit Hours*

### *History 451. Advanced Readings in History*

Development of an extensive knowledge of historical literature and methodology through study of selected materials. An intensive analysis of pertinent historical literature is offered to cadets who demonstrate interest in a particular area or period. Enrollment is limited to cadets who have a genuine interest in history and who satisfy the Professor of History that they can assimilate advanced materials.

*2½-3 Credit Hours*

### *History 454. Intellectual Foundations of the Western World*

Historical investigation of the ideas of selected major Western thinkers. Emphasizes philosophical, religious, scientific, economic, and military thought. Required for a major in the Humanities.

*2½ Credit Hours*

## **DIVISION OF SOCIAL SCIENCES**

*Division Chairman:* Colonel Munch

The Division of Social Sciences offers courses in economics, geography, cartography, law, and political science. The peoples, institutions, cultures, and environments of the world are presented to the cadet, with emphasis on his understanding the foreign nations in which he may live or have associations as an Air Force officer. American ideals and heritages and the nation's contemporary defense policy and foreign policy are studied in connection with his future responsibilities. The courses are aimed toward preparing the cadet to become an enlightened, informed citizen. Thirty and one-half credit hours in social sciences are included in the prescribed Academy curriculum. Cadets who wish to qualify for a Major in Public Affairs must complete or validate all of the prescribed courses in this division and in addition take the following enrichment courses:

## ***Courses***

## ***Credit Hours***

Political Science 352 (Political Theory)	2½
Economics 353 (International Economics)	2½
Law-Political Science 452 (International Law and Organization)	2½
Social Science 451 (Problems in Public Affairs)	2½
Electives in the Social Sciences Division	7½
	<hr/>
	17½

## **DEPARTMENT OF ECONOMICS**

*Professor and Head of Department:* Lt. Colonel Yeoman

*Associate Professors:* Lt. Colonel Hereford; Major Black

*Assistant Professors:* Majors Burcham, Pursley; Captain Acker

*Instructors:* Majors Byron, Caroom, Jackson, Larson, Strawn, Taylor, Tychsen; Captains Cole, Hansel, Kott, Lockard, Roberts, Simpson, Whitfield; 1st Lieutenants Carlson, Patton

### ***Prescribed Courses***

#### ***Economics 101. World Geography***

Essentials of world geography. Includes the physical and cultural elements of the human environment in their areal and national groupings with emphasis on the interrelationships of man and the earth. Also stressed is the present and future influence of geography on national security.

*2½ Credit Hours*

#### ***Economics 113. Elements of Cartography***

Provides knowledge of methods used to establish survey control for the preparation of reliable maps and charts with emphasis on the geodetic considerations affecting missile accuracy. Includes map projections, position referencing systems, principles of photo interpretation and stereoscopy, and fundamentals of the photogrammetric processes used to compile military charts and maps.

*2 Credit Hours*

#### ***Economics 202. Economic Principles and Problems***

Emphasizes economic principles and problems applicable to the mixed-enterprise system of the United States. Concentrates on the following: the institutions and behavior patterns of the various economic sectors represented in the national product accounts and use of the accounts as an analytical tool; the theory and mechanics of national income determination, fluctuation, and stabilization; the

role of pricing, the elements of supply and demand that affect prices, and current pricing practices in the United States. 2½ Credit Hours

*Economics 311. Economic Principles and Problems*

A continuation of Economics 202. Primarily concerned with the theory and mechanics of international trade; selected problems of a public policy nature that affect specific economic sectors; the elements of our economic conflict with the USSR; the economic foundations for U. S. security; and alternative approaches to solution of the basic economic problems. 2½ Credit Hours

***Enrichment Courses***

*Economics 351. Introduction to Investments*

Major considerations in the formulation of investment programs. Introduction to investment research and basic methods of security analysis. Evaluation of such investment vehicles as common stock, preferred stock, bonds, investment trusts, real estate, and insurance. An understanding of investment mechanics. An appreciation of investment problems peculiar to members of the Armed Services. Prerequisites: Economics 202-311 or equivalent. 2 Credit Hours

*Economics 352. Comparative Economic Systems*

A study of representative economies including both the theories and the actual systems. Theories and descriptions precede an evaluation of each economy, followed by a critical comparison. Course covers American capitalism; communism in the Soviet Union, Red China and Yugoslavia; British socialism; fascism; and consumer cooperative movement. Prerequisites: Economics 202-311 or equivalent. 2½ Credit Hours

*Economics 353. International Economics*

Survey of the nature and methods of international trade, with emphasis in the following areas: the background of American foreign trade development; the accounting system of the balance of international payments; the adjustment of international disequilibrium; the operation of foreign exchange markets; the implications of tariff protection, import quotas and other governmental restrictions on trade; and relation of foreign aid to international economic relations. Also includes a survey of the problems of economic development, especially in under-developed countries. Emphasis is placed in the following areas: development planning; mobilizing domestic savings;



avoiding inflation; and attracting foreign investment, both public and private. Prerequisites: Economics 202-311 or equivalent.

2½ Credit Hours

*Economics 354. Political Geography*

May be substituted for Economics 101. A global study of the internal factors that contribute to the individuality of a state and the external geographic factors which condition the relations between states.

2½ Credit Hours

## DEPARTMENT OF LAW

*Professor and Head of Department:* Colonel Munch

*Associate Professor:* Lt. Colonel Michels

*Assistant Professors:* Lt. Colonel Koch; Major Simon

*Instructors:* Majors Barns, Stevens; 1st Lieutenant Frisby

### *Prescribed Courses*

*Law 311-312. An Introduction to Law*

A survey of important precepts in the fields of elementary law, criminal law, criminal evidence; the international law affecting armed forces abroad; and some problems of personal estate planning. A study of the law, its terminology, and its function as a stable, flexible element of social order and military command. The relationship of law to personal and official affairs of members of the Air Force and society in general.

5 Credit Hours (2½ each term)

### *Enrichment Courses*

*Law 451. American Constitutional Law*

The historical background and case progress of American constitutional doctrine. Presents the judicial power as one of the moving forces in American economic, social, and political progress. Analyses of the legal theory of government including the doctrine of separation of powers; the division of powers within the federal system; and the constitutional guarantees of equal protection under the laws, due process, and freedom of the speech, press, assembly, and religion.

2½ Credit Hours

*Law-Political Science 452. International Law and Organizations*

The origins and evolution of international law and organized international collaboration. A foundation in the principles of international law, including territorial and aerial concepts and functions of states and individuals within the international legal system. The efforts of nations to foster international collaboration, to control power politics

by legal rules and general and specialized international organizations. (This course is taught jointly by the Departments of Law and Political Science.) Prerequisite: First Class status or special permission.

2½ Credit Hours

## DEPARTMENT OF POLITICAL SCIENCE

*Professor and Head of Department:* Lt. Colonel Posvar

*Associate Professors:* Majors Albright, Bradbury, Griffith; Captain Boyne

*Assistant Professors:* Major Flannigan; Captains Lackman, Whitaker

*Instructors:* Major Rechtschaffen; Captains Bowman, Freeman, Galvin, Gausche, Koernig, Larsen, Newman, Nibley, Pinckney, Puryear, Refson, Ries, Rosser

### *Prescribed Courses*

#### *Political Science 201. American National Government*

Development and organization of the national government. Nature, structure, powers, and procedures of legislative, executive, and judicial departments. Principles and basic institutions of the American federal system, the constitution, civil and political rights, and party system.

2½ Credit Hours

#### *Political Science 202. Contemporary Foreign Governments*

Emergence of constitutional government and the theory of democracy. An analysis of the political systems, constitutional and legal structures of England, France, Germany, Russia, Japan, and India. An introduction to the diversity of constitutional forms and political forces of these countries.

2½ Credit Hours

#### *Political Science 411. International Relations*

Contemporary international relations as revealed by analysis of interstate conflict and cooperation. Introduction to leading theories of international relations and traditional interpretations of state policy roles and objectives. Major emphasis upon those forces comprising the bases of domestic and international political processes, policy means and ends, and attempts to limit international conflict. Oriented toward United States problems and participation in world affairs.

3 Credit Hours

#### *Political Science 412. Defense Policy*

The relationship of defense policy to national policy and objectives; formulation of defense policy; defense policy and changing weapons; national resources for defense; national and military strategy in the contemporary world.

3 Credit Hours

## Enrichment Courses

### *Political Science 351. Political Parties*

Nature, organization, and operation of the American party system; historical development of parties and issues; relations between national, state, and local organizations, state and national committees; the convention system; the primary; campaign methods and finance; the nature and function of pressure groups.

2½ Credit Hours

### *Political Science 352. Political Theory*

An examination of the ideas which form the bases of the more influential streams of contemporary political and social thought: the philosophies of Plato, Aristotle, Cicero, Machiavelli, Luther, Locke, Hobbes, Rousseau, Adam Smith, Marx, Hegel, and Bentham.

2½ Credit Hours

### *Political Science 353. Modern Political Thought*

An examination of political thought in the nineteenth and twentieth centuries. Special emphasis on the historical roots of contemporary theories and an analysis of democracy, political and economic liberalism, socialism, fascism, and communism.

2½ Credit Hours

### *Law-Political Science 452. International Law and Organizations*

The origins and evolution of international law and organized international collaboration. A foundation in the principles of international law, including territorial and aerial concepts and functions of states and individuals within the international legal system. The efforts of nations to foster international collaboration, to control power politics by legal rules and general and specialized international organizations. (This course is taught jointly by the Departments of Law and Political Science.) Prerequisite: First Class status or special permission.

2½ Credit Hours

## SOCIAL SCIENCES DIVISION ENRICHMENT COURSE

### *Social Sciences 451. Problems in Public Affairs*

Intensive study of American government in action. Special emphasis on constitutional bases; organization, operation, procedures; political dynamics; current problems. A study of both formal and informal influences which condition the development and execution of public policy. Individual analytical reports prepared in consultation with advisers on a particular governmental problem or agency; group discussion of special projects. Prerequisite: First Class status and an advanced level of achievement in the major in Public Affairs.

2½ Credit Hours



*airmanship program*







## OFFICE OF THE COMMANDANT OF CADETS

*Commandant of Cadets:* Maj. General Sullivan

*Director of Cadet Wing Services:* Lt. Colonel Echelberger

*Director of Cadet Wing Personnel:* Major Mattick

*Executive Officer and Director of Administration:* Major Spiker

*Aide de Camp:* Captain Montgomery

The purpose of the Airmanship Program is to train and motivate the cadet for a career of leadership as an officer in the United States Air Force. The program includes courses in military studies, leadership studies, and flying. In addition to formal courses given in these fields, the cadet receives command training and practical leadership experience in the Air Force Cadet Wing.

## CADET WING COMMAND

*Deputy Commandant for Cadet Wing Command:* Colonel Seith

*Executive Officer:* Major Dunn

*Operations Officer:* Captain Shively

*Counseling Officer:* Captain Hovey

*Cadet Activities Officer:* Captain Emanuel

*Air Officers Commanding:* Lt. Colonels Boswell, Henington; Lt. Commander Small (USN); Majors Ambrose, Hairston, Hall (USA), Lilley, Marcum, Patch (USA), Sandman, Woodson; Captains Bullock, Carnright, Dunivant, Ellis, Hampton, Ingram, Monts, McGill, Stephenson

Command training within the Cadet Wing develops a strong sense of honor, intense loyalty to mission regardless of personal consequences, precision in thought and action, the ability to work successfully with other people, and the proficiency to exercise group leadership.

### ***Prescribed Course***

#### *Command Training.*

Regular periods of drill, parades, inspections, and small arms training to develop military precision, discipline, and leadership qualities. Instruction in service customs, courtesy, and conduct.

*No Credit*

## DIVISION OF AIRMANSHIP STUDIES

*Deputy Commandant for Airmanship Studies:* Colonel Wolke

*Executive Officer:* Major Brennan

*Scheduling Officer:* Major Wogan

*Education Officer:* Captain Ennis

The Division of Airmanship Studies offers courses in military studies, leadership studies, and flying. *Military studies* promotes the attitudes and provides the professional knowledge required of an Air Force officer. Through field trips to military installations and specialized training at the Academy, these objectives are carried out by practical application. *Leadership studies* introduces the cadet to the principles of leadership through a study of psychology and management, and provides practical application through individual assignment to an Air Force squadron and the instruction of new cadets. *The Flying Program* motivates and prepares the cadet for his career in the aerospace age. A pilot indoctrination course is required

of each cadet. Cadets who are physically qualified and desire additional flying instruction may volunteer for a pilot screening course. Other cadets have the option of a navigation indoctrination course or an enrichment course.

## DEPARTMENT OF MILITARY STUDIES

*Director of Military Studies:* Lt. Colonel Churchville

*Executive Officer:* Captain Baxter

*Course Directors:* Wing Commander Freer (RAF) ; Majors Pomeroy, Shawe; Lt. Commander Price (USN) ; Squadron Leader Martin (RAAF) ; Captains Byrne, Crane, Hite, Mullaney

### ***Prescribed Courses***

#### *Military Studies 100. Growth and Development of the USAF*

The evolution of airpower from the early days to the present, centered around the film "The Air Force Story."

¾ Credit Hour

#### *Military Studies 113. National Security and the Armed Forces*

Study of the national security organization and the military instrument of national power, emphasizing the USAF in preparation for Field Study of the Armed Forces.

1½ Credit Hours

#### *Military Studies 210. Field Study of the Armed Forces*

Six-week field trip within the United States to Army and Navy units; SAC, TAC and ADC combat units; USAF support units.

4 Credit Hours

#### *Military Studies 213. Applied Aerospace Power and Armed Forces*

Introduction to global airpower and a study of Armed Forces, both foreign and domestic, in preparation for Field Study of Overseas Areas.

1½ Credit Hours

#### *Military Studies 310. Field Study of Overseas Areas*

Four-week field trip to pivotal areas in Europe or the Far East to observe global airpower and Armed Forces. An insight into the various cultures of our allies is gained through the trip.

2¾ Credit Hours

#### *Military Studies 410. Contemporary Military Thought*

A study of current military concepts and trends in aerospace systems; development of national security programs shaping the future of military operations. Discussion of current career prospects in major operational commands.

1 Credit Hour

*Military Studies 423. Aerospace Operations*

Review of current aerospace systems of the world; review of world-wide space programs; progress reports on these programs and on systems development; and study of current concepts for military operations in space.

½ Credit Hour

*Military Studies 433. Field Study of Missile Installations*

One-week field trip to military and civilian installations to observe both operational and developmental space technology hardware.

¾ Credit Hour

**Enrichment Courses**

*Military Studies 451. Advanced Military Studies*

Selected cadets are provided the opportunity to work at an advanced level on current and projected military applications of aerospace power. Work is accomplished through research papers, seminars, and texts.

2½ Credit Hours

**DEPARTMENT OF LEADERSHIP STUDIES**

*Director of Leadership Studies; Professor of Psychology and Management:* Lt. Colonel Ofiesh

*Deputy Director and Associate Professor of Psychology and Management:* Lt. Colonel Ryan

*Assistant Professor of Psychology and Management:* Major Triner.

*Instructors:* Captains Collins, Hutchins (USMC), Kaapke, Koeninger, Magee, Seymoe (USA), Stockhouse

**Prescribed Courses**

*Leadership Studies 110. Basic Military Training*

Transition from civilian to military life. Indoctrination in the overall Academy program, cadet regulations, the Honor Code, manual of arms, drill, customs and courtesies, and other general military subjects. Introduction to basic Air Force weapons, firing course (M-1 rifle and .38 calibre pistol), and survival training exercise.

6 Credit Hours

*Leadership Studies 201. Psychology of Adjustment*

Principles of basic and applied psychology, learning, motivation, adjustment, individual differences, selection training, performance evaluation.

2½ Credit Hours

*Leadership Studies 213. Instructor Training*

Fundamentals and techniques of military instruction.

1½ Credit Hours



*Leadership Studies 310. Duty with Basic Cadets*

Preparation for and participation in supervisory and instructional duties with the Basic Cadet Training Group.

3 Credit Hours

*Leadership Studies 302. Personnel Management*

Principles of management, group attitudes, communication and organization problems. Case studies, with role-playing based on actual leadership situations in the Air Force.

2½ Credit Hours

*Leadership Studies 410. Duty with Air Force Unit*

Individual assignment to squadron grade position with a combat unit of the Air Force for two weeks. In-service training permits practical application of leadership and management principles.

1½ Credit Hours

**Enrichment Courses***Leadership Studies 351. Psychology of Counseling and Guidance*

An introduction to principles of psychology as applied to personal adjustment and academic counseling in a military environment. Principles and practice of counseling and guidance as performed by Air Force commanders and leaders. Includes formal lectures and study of actual case materials.

2½ Credit Hours

*Leadership Studies 353. Social Psychology*

An advanced course in the study of small groups. Interpersonal relations as related to the role of an Air Force officer. Group dynamics in the framework of the commander and his staff.

2½ Credit Hours

*Leadership Studies 354. Marriage and the Family*

Transition from single to married life, with emphasis on the social psychology, cultural factors, and financial considerations which inhibit or contribute to healthy family and marital relations. A study of ways to achieve togetherness through family, religion, and duty.

2½ Credit Hours

**DEPARTMENT OF NAVIGATION**

*Director of Navigation:* Lt. Colonel Conway

*Executive Officer and Planetarium Director:* Major Pfrang

*Branch Chiefs:* Majors Cortez, Newell

*Instructors:* Majors Bale, Hemmig; Captains Bennett, C. H. Brown, J. T. Brown, Colgan, Eckert, Gibson, Mahon, Reilly, Reitan,

Underwood; Flight Lieutenant Barber (RCAF); Lieutenant Aldern (USN)

### ***Prescribed Courses***

#### *Navigation 110. Introduction to Flying*

Introduction to the care and use of flying equipment and survival gear. Orientation flights and emergency procedures in the T-29 twin-engine navigation aircraft and the T-33 jet aircraft.

*¼ Credit Hour*

#### *Navigation 411. Navigation Indoctrination*

A voluntary course in either the fall or spring of the 1st Class (Senior) year for all cadets not taking Airmanship 501, Pilot Screening or 2½ credit hours of enrichment courses. Thirty flying hours in a T-29 aircraft of which three 5:00 flights are flown during a weekend mission to other Air Force bases. Fifty hours of related ground school introduce the cadets to theoretical aspects and operational procedures of dead reckoning, airplot, celestial, grid, pressure pattern, loran, and radar navigation. Ten hours in ground simulators serve to integrate classroom instruction in preparation for airborne instruction.

*2½ Credit Hours*

***Pilot Indoctrination and Screening*** (The implementation of these two courses, programmed in 1961, is dependent upon the availability of an airfield for light plane flying.)

#### *Airmanship 410. Pilot Indoctrination*

A mandatory course in the summer term of the 1st Class (Senior) year for all cadets, consisting of ten flying hours in a light airplane and ten hours of related ground school. The ten flying hours are dual instructional flights under the supervision of a competent flight instructor.

*½ Credit Hour*

#### *Airmanship 401. Pilot Screening*

A voluntary course in either the fall or spring of the 1st Class (Senior) year for all cadets physically qualified and desiring further pilot training. The course consists of thirty flying hours in a light airplane and thirty hours of related ground school. Since the course is designed to prepare the cadet for further pilot training, the thirty flying hours consist of nearly all maneuvers and procedures found in Air Force primary pilot training. When adequate proficiency has been demonstrated the cadet will solo.

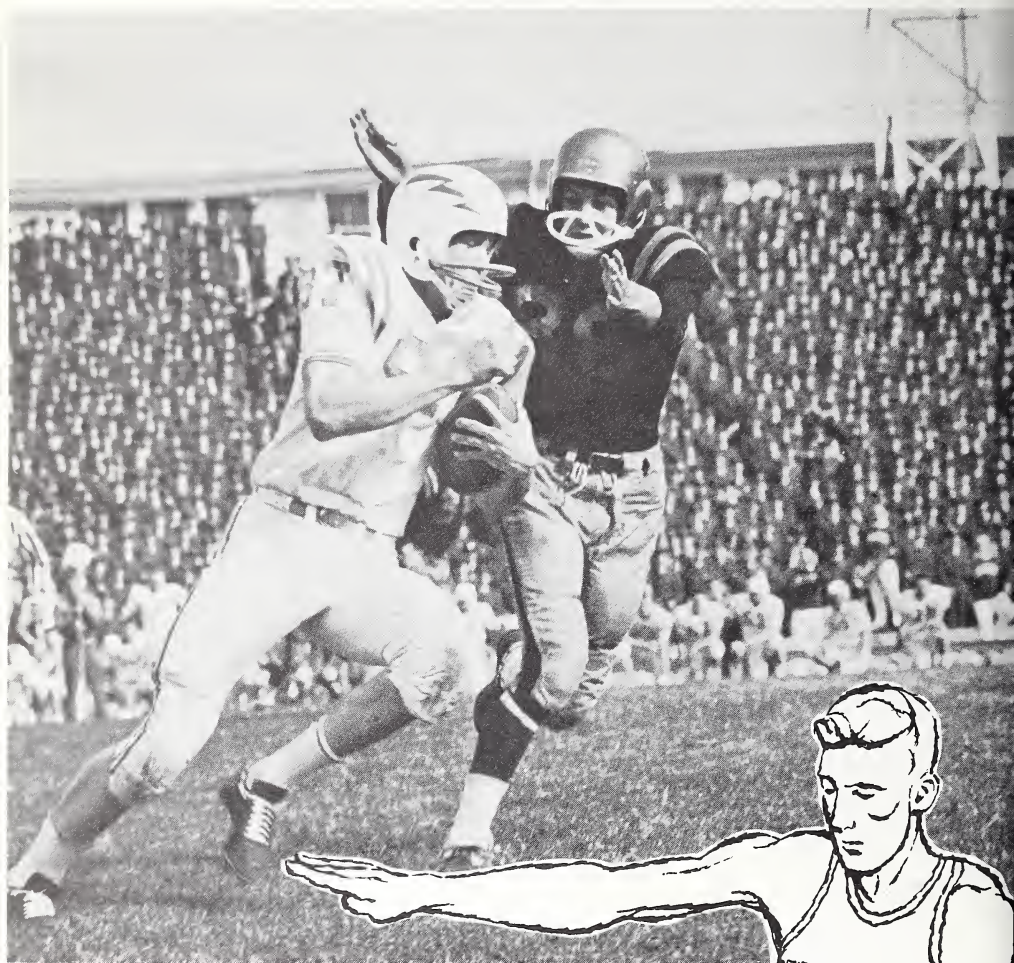
*2½ Credit Hours*

### ***Enrichment Course***

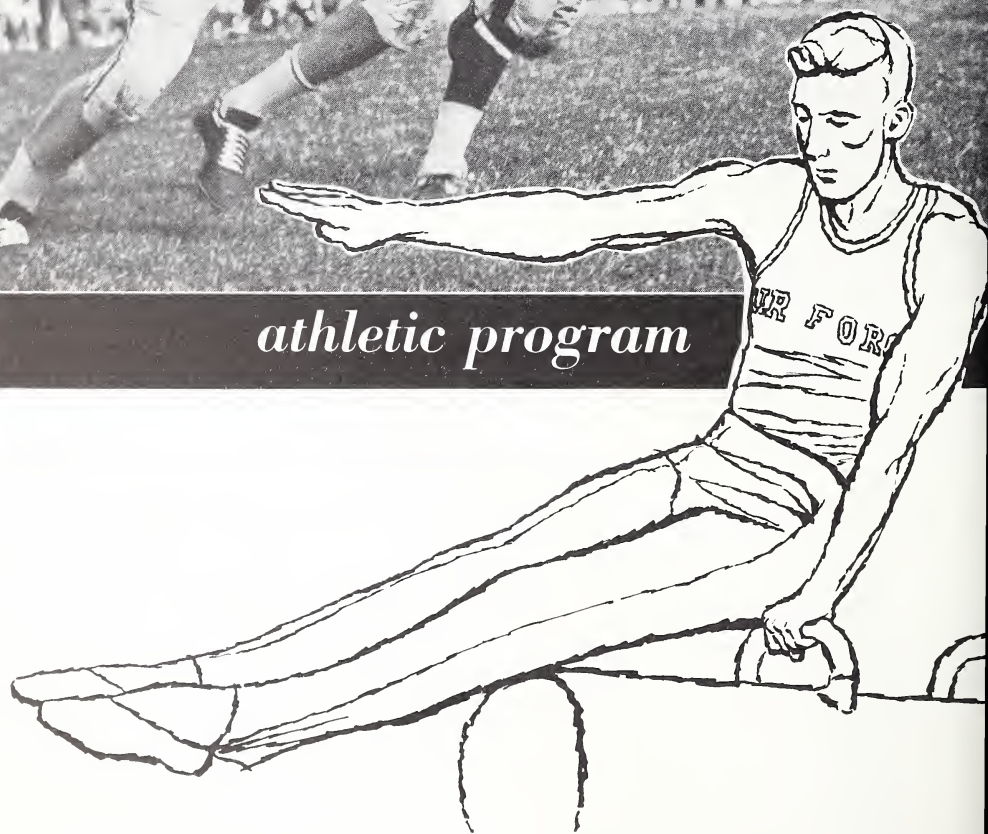
#### *Navigation 351. Descriptive Astronomy*

The earth as a planet and its motions within the solar system. An understanding of the motions of all members of the solar system including moons, planets, comets, and the sun, and the laws governing these motions. The historical development of astronomy from earliest times to the present. Systems of measurement and observations, and methods of reducing these observations to scientific fact.

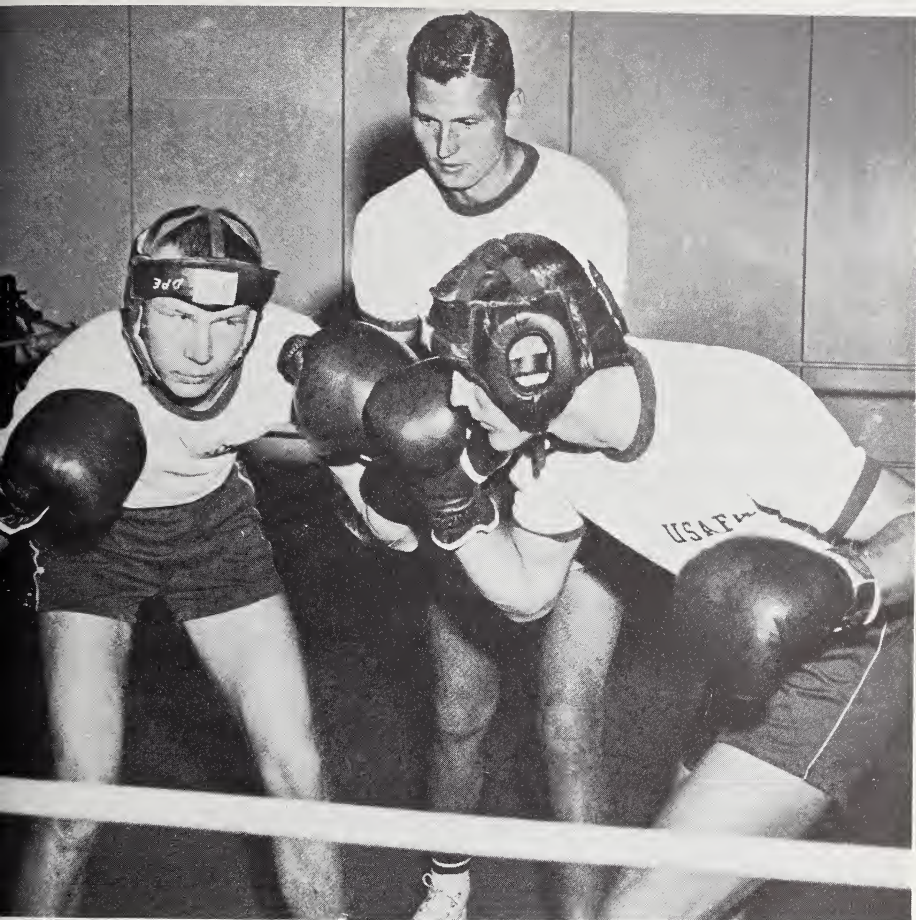
*2½ Credit Hours*



*athletic program*







## OFFICE OF ATHLETICS

*Director of Athletics:* Colonel Simler\*

*Business Manager of Athletics:* Mr. James

*Executive Officer:* Major Cook

*Sports Publicity:* Mr. Reisch

The Air Force Academy recognizes physical education and athletics as an integral part of the cadet curriculum. Each cadet is required to take the prescribed courses in physical education, as well as compete in intercollegiate or intramural athletics. Intercollegiate athletics provide a source of competition for cadets in individual or team sports against other colleges and universities. Cadets who do not choose to participate in varsity sports must compete in intramural activities among the cadet squadrons.

\*To be replaced by Col. M. L. Martin August 1, 1960.

## DEPARTMENT OF PHYSICAL EDUCATION

*Chief, Department of Physical Education:* Lt. Colonel Myslinski

*Chief, Instructional Branch:* Major Ludlow

*Chief, Intramural Branch:* Captain Slezak

*Chief, Administrative Branch:* Captain Oliver

*Instructors in Physical Education:* Major Owens; Captains Agre, Allen, Anderson, Bakke, Bradley, Buckner (USA), Cleland, Corder, Crews, Fritts, Gurski, Ignarski, King, Lawrence, Lenz, McNamara, Shain, Steger, Sullivan; 1st Lieutenants Blasi, Bowman, Conant, Lawrence, Rodgers, Strickland, Sutton, Verducci; Mr. Arnesen, Kitt, Toth

### *Prescribed Courses*

#### *Physical Education 110. Basic Physical Training*

Develops physical strength, endurance, agility, and coordination through conditioning exercises, conditioning games, obstacle course, and recreational sports. Sports include touch football, volleyball, softball, and speedball. A physical fitness test is administered at the completion of the summer program.

1½ Credit Hours

#### *Physical Education 101-102. Boxing, Judo, Swimming, Gymnastics*

Instruction and practice in boxing, judo, swimming, and gymnastics.

2 Credit Hours (1 each term)

#### *Physical Education 105. Competitive Athletics*

Participation in intramural and/or intercollegiate athletics.

2 Credit Hours

#### *Physical Education 103. Basketball*

Instruction and practice in the fundamentals of basketball.

¼ Credit Hour

#### *Physical Education 205. Competitive Athletics*

Participation in intramural and/or intercollegiate athletics.

2 Credit Hours

#### *Physical Education 203. Instructor Training*

Instruction and practice in techniques of giving conditioning exercises, combatives, guerilla exercises, and grass drills. Preparation for leadership in the Basic Cadet Training program.

¼ Credit Hour

#### *Physical Education 301. Unarmed Combat, Volleyball, Soccer, Handball, and Squash*

Instruction and practice in unarmed combat, volleyball, soccer, handball, and squash.

1 Credit Hour

*Physical Education 305. Competitive Athletics*

Participation in intramural and/or intercollegiate athletics.

2 Credit Hours

*Physical Education 400. Golf, Tennis*

Development of carry-over skills in golf and tennis.

½ Credit Hour

*Physical Education 405. Competitive Athletics*

Participation in intramural and/or intercollegiate athletics.

1 Credit Hour

**Special Activities**

Extracurricular physical education is available through club activity in sports not offered in the prescribed program. Some of these sports are judo, lacrosse, skiing, squash, and handball. Competition in these activities is often scheduled with local area institutions and clubs.

**DEPARTMENT OF INTERCOLLEGIATE  
ATHLETICS**

*Chief, Department of Intercollegiate Athletics:* Major Cook

*Athletic Head Coaches: Fall Sports:* Football—Mr. Martin, Cross-

Country—Captain Matthews, Soccer—Mr. Arnesen; *Winter*

*Sports:* Basketball—Major Spear, Fencing—Mr. Toth,

Gymnastics—Captain Sullivan, Pistol—M/Sgt. Young, Rifle—

M/Sgt. Boley, Swimming—Captain Cleland, Skiing—Captain

Ingram, Wrestling—Mr. Kitt; *Spring Sports:* Baseball—

Captain Lawrence, Golf—Captain Shain, Tennis—Captain

Oliver, Track—Mr. Arnesen

The Director of Athletics has the responsibility for overall supervision of the intercollegiate athletic program. The Air Force Academy Athletic Association, a non-profit organization of Air Force personnel, administers the financial operation of the program. The Executive Committee of the Athletic Association, composed of Academy officers appointed by the Superintendent, establishes the policies under which intercollegiate athletics are conducted.

A total of 15 intercollegiate sports are available to the cadets on a voluntary basis. Over half of the members of the Cadet Wing have

elected to participate in intercollegiate sports during the academic year. A cadet must be proficient in his studies to remain eligible for participation.

The Academy's intercollegiate athletic teams are known as the Falcons. During the 1960-61 season the Falcons will compete with leading colleges and universities from all parts of the nation, meeting strong intersectional opposition in all varsity sports.

In football the Falcons will meet the following teams in 1960:

<i>Home Games</i>	<i>Away Games</i>
Sept. 24 — Colorado State	Oct. 15 — Navy
Oct. 1 — Stanford	Oct. 22 — Wyoming
Oct. 8 — Missouri	Nov. 12 — UCLA
Oct. 29 — George Washington	Nov. 26 — Colorado
Nov. 5 — Denver	Dec. 3 — Miami (Florida)

All Air Force Academy home games are played either at the University of Denver stadium or at the University of Colorado stadium. Plans are underway to build a 40,000-seat stadium at the Academy, with construction to be financed through funds raised by the Air Force Academy Foundation. The Foundation is an organization of national civic leaders, whose primary purpose is to provide recreational and cultural facilities for the Academy site which cannot be acquired through the use of Congressional appropriations. The Foundation's first project, completed in the fall of 1959, was the construction of an 18-hole golf course to be used by cadets and other Academy personnel. The drive for funds to build a football stadium begins in April 1960.

## EQUIPMENT AND FACILITIES DIVISION

*Chief, Equipment and Facilities Division:* Lt. Colonel Frakes

*Assistant Chief:* Captain Russ

*Supply Officer:* CWO Skinner

The Equipment and Facilities Division accomplishes all support functions for the athletic program. The facilities complex includes a gymnasium with an Olympic-size swimming pool and a natatorium; handball and squash courts; boxing rings and basketball courts, which can also be used for other activities. Outside the building are courts for tennis, volleyball, and basketball; fields for football, soccer, and baseball; and an outdoor track.



## *educational services*



### **EDUCATIONAL SERVICES**

#### ***The Air Force Academy Library***

The Air Force Academy Library provides a well-balanced reference and reading collection to support the educational mission of the Academy. It contains all materials generally found in leading liberal arts and engineering colleges and universities. In addition, as a result of many gifts, the Library is developing a comprehensive reference and basic research collection in the field of airpower and aeronautical history. Also, it maintains a special collection of unique and rare items pertinent to the growth and development of the Air Force Academy.

The Library collection now numbers approximately 100,000 items, and ultimately it will contain 250,000 volumes. The periodical reading section contains current issues of more than 1,000 magazines and 90 newspapers from all parts of the United States and from foreign countries.

The Library occupies the largest portion of one wing of Fairchild Hall, the academic building. Covering 78,000 square feet of floor space, the Library's three floors are serviced by a marble-covered spiral stairway which is unique in its structural features and truly distinctive in its beauty and dramatic effect.

Included in the Library facilities is a listening area to aid instruction in foreign languages, poetry, historic speeches, and related subjects in the social sciences and humanities. The music room is used for instructional purposes as well as for the presentation of classical and semi-classical recorded concerts.

The Library holds membership in the Bibliographical Center for Research for the Rocky Mountain Region. By this means books and periodicals from library sources throughout the United States and Canada are obtained on a loan basis for the use of patrons. The Academy Library is a selective depository for United States Government documents and for United Nations documents. It is also a source of technical report literature, such as RAND, ASTIA, NASA, and TEMPO Reports, for use in courses offered by the Basic and Applied Sciences Divisions. Included in the Academy Library holdings is a microfilm collection, numbering more than 3,800 reels, and a vertical file of pamphlet series, brochures, data on various Air Force installations, and similar visual materials directly related to all aspects of the curriculum.

During 1959, more than 51,000 items were circulated, and registered borrowers totaled more than 2,500. Statistically this amounts to a per capita use of 23.2, compared with a national average of 16.8 among other college and university libraries.

### *The Planetarium*

The Planetarium at the Air Force Academy is one of the finest in the United States. The giant multiple projector of the Planetarium can portray the panorama of the heavens on the building's 50-foot opaque aluminum dome. Lighting and sound effects add to the realism of the celestial projections.

The Planetarium is used to teach celestial theory and star identification to all cadets in their study of navigation. It is also utilized

for a special course in astronomy offered to those cadets who are interested in additional celestial study.

The complicated problems of spatial relationships are more readily solved and understood by the student through use of the Planetarium. The student can imagine himself at the center of the earth looking out, as he sees nothing in the darkened room but the projections on the large dome which vividly represents the heavens.

The instructor operates the Planetarium projector from a master control board to simulate the effects he desires. The projector can accomplish realistic simulation of numerous movements that take place in the sky. Some of the realistic displays are comets, meteor showers, the northern lights, constellations, sunrise and sunset, and the planets in orbit. All stars visible to the naked eye, from the brightest to the dimmest, can be duplicated by the instrument. Also the stars can be put through rapid changes, such as moving forward or backward in time to show their past or future positions.

In addition to using the Planetarium for instructing cadets, the Academy makes it available to other educational institutions as well as the general public.

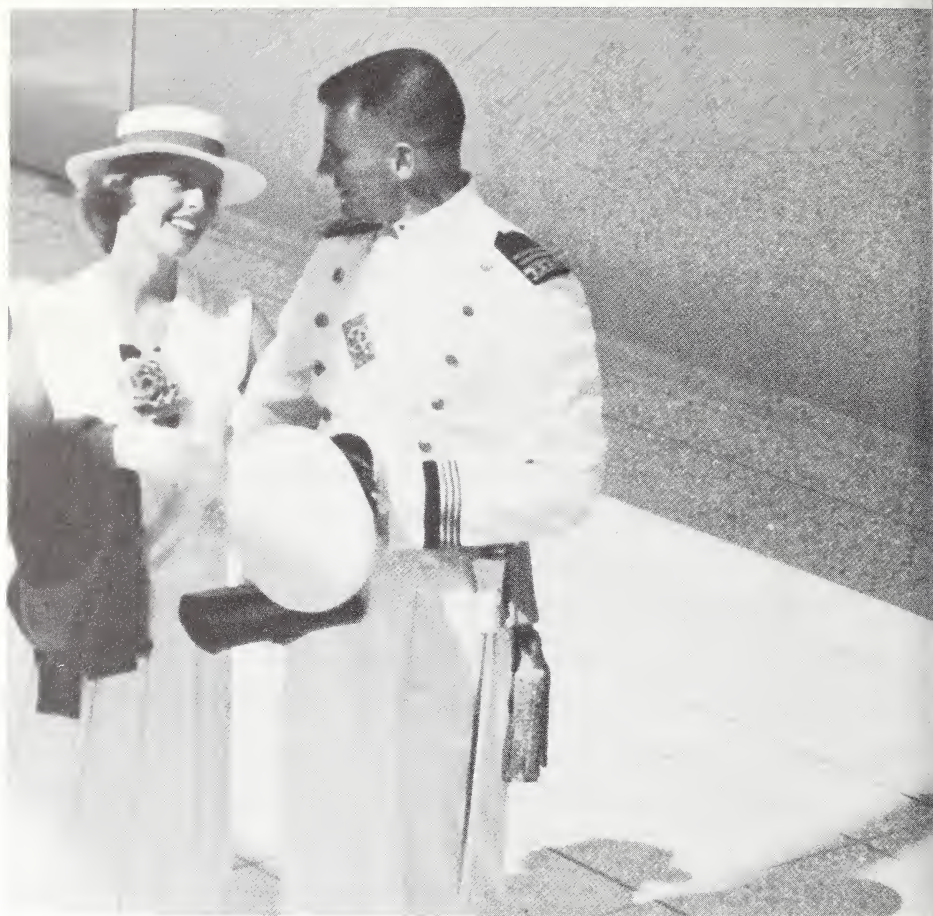
### ***Cadet Counseling***

The Office of Cadet Counseling assists cadets to improve their study skills and academic potential. The counseling staff is primarily interested in helping cadets to solve problems which interfere with academic performance and keep them from reaching their maximum development. The staff guides the cadets in reaching better self-understanding and making important personal decisions and adjustments. The office maintains close liaison with faculty members so that they may assist cadets to improve their study habits and to develop special aptitudes and career interests.

### ***Audio-Visual Services***

The Office of Audio-Visual Services provides teaching materials to all instructional departments to contribute to more effective learning. These materials include charts, slides, motion pictures, records, models, mock-ups, instructional manuals and workbooks. The office also provides motion picture and slide projectors, tape recorders, record players, and any other projection, sound and recording equipment used in instruction.





## THE CADET WAY OF LIFE

The cadet way of life differentiates the Air Force Academy from a civilian college or university. It includes all the activities and influences which are encompassed in the four-year environment of the cadet. It involves a rigid daily schedule; conformity to strict discipline and conduct; a gradual progression through the class system from follower to leader, from virtually no privileges to minimum supervision, from responsibility of self only to broad responsibility in management of the Cadet Wing.

Immediately after coming to the Academy, a young man receives an indoctrination to the cadet way of life through a basic cadet training program which continues for approximately nine weeks. The purpose of this program is to mold the diverse input of young men from every state and territory into thoroughly disciplined cadets. In



the fall the cadet begins the academic year which is a busy one indeed.

The entire Fourth Class year is the most rigorous that a cadet spends at the Academy. For the most part the cadet is restricted to the Academy with only occasional off-base privileges. He lives by the book of Fourth Class customs — stands at attention when spoken to, squares corners when walking, double times in the cadet area, and recites specific literature upon command by upperclassmen. In general, he must be a model of military bearing.

All this is a part of the training to teach the cadet discipline and self-control. The pressures involved in this training test the ability of a cadet to perform effectively under stress which he may be subjected to later as an Air Force officer. If a young man is not capable of withstanding these pressures, the Academy wants to discover this as soon as possible.

## THE AIR FORCE CADET WING

Life in the Air Force Cadet Wing provides an opportunity for personal development of leadership competence and recognition of outstanding performance. The permanent organization of the Wing consists of a headquarters with a commander and his staff, 4 group staffs, and 16 squadrons. By 1962, when the Wing is programmed to reach its full strength, there will be 4 groups and 24 squadrons, each squadron consisting of approximately 100 cadets.

Each squadron and group is supervised by a commissioned officer, designated as the Air Officer Commanding. He is individually selected to represent to the cadet the highest standards of professional competence, experience, integrity, leadership, and career motivation.

Upperclass cadets are appointed to positions of responsibility within the Cadet Wing to perform administrative duties and to assist with the military training and discipline of new cadets. Cadet officers and senior noncommissioned officers are chosen from the First and Second Classes only. The basis for selection is the cadet's leadership ability, determined in part by the Cadet Effectiveness Rating System which requires each cadet to rate the classmates in his squadron and classes junior to him. The factors rated are attitude, performance, leadership, bearing, and dress.

The senior officer within the Cadet Wing is the Wing Commander, ranked as a cadet colonel. Other important First Class ranks

are Group Commander, a cadet lieutenant colonel; Squadron Commander, a cadet major; and Flight Commander, a cadet lieutenant. Second Classmen hold grades of technical and staff sergeants.

Rank is indicated on the shoulder boards of the cadet uniform. Cadet rank is usually rotated three times a year to permit a maximum number of cadets to obtain experience at various levels of responsibility.

## **THE CADET WING MASCOT**

In the fall of 1955, members of the Class of 1959 selected the falcon as the mascot of the Cadet Wing. The falcon was chosen because its strength, alertness, aggressiveness, and poise in flight are symbolic of the mission of the United States Air Force. The falcon was named "Mach I," the term indicating the speed of sound.

At present there are eight falcons at the Academy housed in the mews north of the academic area. One of the falcons is a Canadian peregrine, and the others are Colorado prairie falcons.

The falcons are trained and cared for by the Cadet Wing Falconers. They volunteer their free time to practice the ancient sport of falconry, which involves training the falcons to fly in pursuit of a lure.

The Cadet Falconers conduct demonstrations of the falcons' flying ability at half-time activities at football games and other sports events. The performance of an Academy falcon amazingly resembles a combat aircraft flying in pursuit of the enemy and attacking its target.

## **THE HONOR CODE**

The Honor Code is one of the most important features of cadet life. The Code was adopted by the Class of 1959 and has since been administered through elected Honor Representatives of the Cadet Wing. The Code embodies these principles: "We will not lie, cheat or steal, nor tolerate among us those who do."

The cadets realize that the Code is a bond between themselves and the entire military heritage. An adherence to the principles of personal integrity has traditionally characterized the professional officer. Every officer must follow this concept of honor if he is to perform his duties and carry out his responsibilities properly. Failure to do so would make it impossible to maintain the respect, confidence, and wholehearted cooperation of any command.

It is through this sense of trust that professors leave the classrooms while tests are being administered at the Air Force Academy. Both in and out of the classroom, a cadet practices the virtues of personal integrity, mutual trust, and loyalty through allegiance to the Honor Code.

## PAY AND ALLOWANCES

An Air Force cadet receives his education at government expense. In addition to an allowance for food, he receives \$111.15 per month which is credited to his account to pay for academic supplies, clothing, and personal expenses. Quarters and medical care are provided. With proper economy during his four years at the Academy, he will save enough to purchase the uniforms he will need as an officer upon graduation. A cadet's pay and allowances are considered sufficient for him to be self-supporting. However, he should not be indebted when entering the Academy, because his pay is not sufficient to defray any significant obligations contracted prior to entrance.

## INSURANCE

Government-sponsored insurance is not provided for cadets. A special commercial insurance plan is available to all cadets on a voluntary basis. The plan offered is \$10,000 term insurance and \$10,000 accidental death, dismemberment, loss of sight, and disability benefits. The total \$20,000 of insurance is available for \$3.50 per month. This amount is set aside in the *Cadet Budget* from the cadet's monthly pay. The policy is free of conditions or restrictions as to occupation, residence, travel or military service. The policy is convertible to a permanent plan of insurance at the end of the term period or upon graduation or separation from the Academy. This plan does not preclude a cadet from purchasing insurance from any other company he may select.

## LIVING QUARTERS

All cadets are housed in Vandenberg Hall in the academic area of the Academy. The dormitory is a quarter of a mile long, and in addition to the cadet rooms, it contains the cadet store, class lounges, and cadet activities rooms.

Two cadets share a room. Each cadet has a single bed, desk, lamp, chair, closet, wall bookcase, and chest of drawers, and roommates share a lavatory which has two enclosed clothes hamper. Mahogany is the furnishing pattern for the rooms. Each room has a

picture window affording an excellent view of the mountainous terrain surrounding the site. The rooms were designed to provide as much comfort as possible, and the accent was placed on a quiet atmosphere for study.

All cadets are required to meet rigid standards of cleanliness and neatness in the arrangement of clothing and equipment in their rooms.

## DINING HALL

The cadets eat all their meals in Mitchell Hall, located on the south side of a quadrangle which lies in the center of the main Academy buildings. The cadet dining hall, enclosed in glass on three sides, is large enough to seat the entire Cadet Wing at one time (approximately 2,500 cadets at maximum strength).

Cadets march to the dining hall in formation. They assemble by squadron on the ramp in front of Vanderberg Hall, the cadet dormitory. The Air Force Academy Band plays for the noon formation, which visitors are permitted to watch from the Court of Honor behind Harmon Hall, the administration building.

Visitors are not allowed in Mitchell Hall unless they are on an organized tour. Academy faculty and staff officers may invite male guests to eat at Mitchell Hall, but no female guests are permitted.

The cadet dining hall has become well known among the cadets for its excellent meals. The food is served family style, ten cadets to a table.

## THE CADET'S DAY

During the fall and spring terms a cadet's normal week day begins at reveille at 5:55 a.m. First he prepares his portion of the two-man room for morning inspection and then has breakfast from 6:35 to 7:00. He attends classes or studies from 7:30 to 11:45. At 12 o'clock he marches to the dining hall for lunch. After lunch he attends classes or studies from 1:10 to 3:15.

Unless he is participating in intercollegiate athletics, he practices or plays on a squadron intramural team two afternoons a week from 3:45 to 5:00. The other three afternoons during the week he spends in study or organized cadet extracurricular activities. He may volunteer for extra instruction from 4:45 to 6:10 each afternoon during the week.

Dinner is from 6:25 to 7:05. At 7:15 the cadet must be in his room for study until taps at 10:15. Visits to the Library are author-



ized during study time. Unless the cadet is permitted to have late lights, he must be in bed with lights out at taps.

First Classmen and Second Classmen on the Superintendent's Merit List have more freedom in their evening schedule. They are not required to maintain a strict study schedule and may have liberal late-light privileges.

A regular part of the weekly schedule is a Cadet Wing Parade on Saturday mornings at 11:30. The colorful marching performance is conducted on the parade grounds in a valley just east of the academic area. Visitors are welcome to attend the parades. A parking area and bleachers are available for visitors.

Following the parade the cadet is free from "Call to Quarters" (specified times for a cadet to be in his room or at some planned activity such as class). On Saturday afternoons and evenings and Sunday afternoons, he may visit Arnold Hall, the cadet social center, and entertain guests there, provided he is not deficient in conduct or grades. At certain times upperclass cadets may receive special privileges to leave the Academy on weekends. The frequency of these privileges depends upon the prescribed number for the cadet's class and his standing in conduct and grades.

## LEAVES OF ABSENCE

The Academy recognizes that vacation periods are vital to the morale and welfare of a cadet. However, a cadet is not at liberty to take a leave of absence from the Academy when he may desire. Since he is a member of the Armed Forces engaged in highly specialized education at government expense, it is necessary to limit and control his periods of leave.

Except in extreme emergencies, leaves are not granted during a cadet's first year at the Academy while he is developing a sense of discipline and esprit de corps. Although required to remain at the Academy during the Christmas holidays, the Fourth Classman is relieved from duty and study. He may enjoy all the privileges of an upperclassman during the holidays and entertain visitors at the cadet social center.

During his second summer at the Academy, a cadet receives his first leave of approximately four weeks. Thereafter, during each of his years as an upperclassman, he may be permitted to take leave for approximately one month during the summer and for two weeks at

Christmas. The prescribed leave may be denied to a cadet who is serving punishment or is deficient in his academic work.

Emergency leave may be granted to a cadet whose emergency involves a member of his immediate family. Other requests for special leave are considered on an individual basis.

## **SPECIAL PRIVILEGES**

Special privileges to leave the Academy campus are based on a gradual transition from the status of a new cadet to a second lieutenant. The new cadet, a Fourth Classman, is very restricted in the number of privileges he may receive. He is permitted to leave the Academy only on specific holidays, after certain varsity football games, for special cadet activities, and for occasional dining with close relatives or staff officers.

Privileges are progressively increased by class in recognition of added maturity and responsibility. By the time a cadet has completed three years at the Academy and has become a First Classman, he is relatively free during off-duty hours, just as he will be as a second lieutenant.

Cadets do not have the privilege of owning automobiles at the Academy. This privilege may be granted, however, to First Classmen during their last semester before graduation.

## **CADET UNIFORMS**

Distinctive cadet uniforms are issued to cadets during the fall of their Fourth Class year. All components of the uniforms are tailored to fit the individual cadet. The main uniform in the wardrobe is the blue winter dress, worn during the academic year to classes, meals, athletic events, and on official trips. The two parade dress uniforms (blue for winter and white for summer) are worn to parades, ceremonies, and chapel. The blue evening dress uniform is worn to social functions the year around.

Cadets are authorized to wear civilian clothing only when on leave from the Academy. Cadets will not have an occasion to wear civilian clothing during their Fourth Class year.

## **RELIGION**

In preparing cadets for future leadership, the Air Force Academy stresses the development of religious and moral values. A military

leader is expected to uphold those values among the men within his command.

A well-balanced religious program for adherents of the three major faiths — Protestant, Catholic and Jewish — enables cadets to develop their potential for religious leadership and at the same time to worship in the faith of their choice.

Upon arriving at the Academy, each cadet determines according to his major faith the specific chapel flight of his choice. Attendance at Sunday or Sabbath services of the faith selected is required of all cadets, except First Classmen who have the option of church attendance. Protestant cadets of the Second and Third Classes may attend churches of their respective denominations in Colorado Springs in lieu of the Protestant Cadet Chapel.

There are other religious activities available to cadets who wish to participate. These include daily worship, special denominational services, choir participation, and religious instruction classes. In addition, a number of cadets have volunteered to teach Sunday School classes for children of Academy personnel.

The religious services are conducted by the Protestant, Catholic and Jewish Chaplains. Besides their organized religious activities, the Chaplains are available to the cadets at any time for personal conferences or counseling. Many of the cadets make personal adjustments and solve problems through private discussions with their Chaplain.

The center of religious activities for the Cadet Wing will be the Cadet Chapel, which is now under construction within the academic area of the Academy. The Chapel has been designed to provide an enclosure for all three faiths and to impart a distinct character to each church located within the structure. The modern Chapel, due for completion in the summer of 1961, will feature 17 towering aluminum spires, designed as a monument to tomorrow's Air Force leaders.

## RECREATION

Recreational activities provide the cadets with diversion from their intensive schedule of classes and study. Arnold Hall is the cadet social center where most of the week-end activities are held. The social center is divided into three main areas — the theater, recreational rooms, and the reception room and ballroom.

The 3,000-seat theater, with its excellent acoustics, functional stage, and comfortable seats, is one of the finest auditoriums in the

nation. Movies are held there on Saturday nights and Sunday afternoons for all cadets who desire to attend. The theater is also used for concerts, plays, and other special events.

The recreation area has a game room, card room, television room, an eight-lane bowling alley, and snack bar which may be used by all cadets and their guests.

The reception room and ballroom is one large area where the cadets entertain guests, hold formal and informal dances and other social functions. This spacious area is enclosed with picture windows, providing a view of the northern portion of the Academy site and the landmark "Cathedral Rock." Outside is a patio used during the summer months. Located here is a white-marble statue of the mythological winged-horse "Pegasus," given to the Air Force Academy by the Italian Government.

Social functions are held in Arnold Hall on Saturday nights and evenings preceding holidays. Fourth Class cadets are not permitted to use the reception room of the building unless they are receiving visitors or the ballroom unless a special dance is scheduled for them. During the Christmas holidays when the upperclassmen are away, all of these facilities are open to Fourth Classmen and a full social schedule is arranged.

The Cadet Wing Hostess supervises all of the social functions held in Arnold Hall and assists with arrangements for cadet outings in the Rocky Mountain area. Also under her direction is teaching the Fourth Class cadets to use proper social customs and courtesies. This includes dining etiquette, social calls, introductions, grooming and conduct in public, and other social graces. The Cadet Hostess arranges for ten hours of professional dancing instructions to be given to each cadet of the Fourth Class.

## CADET ACTIVITIES

Extracurricular activities are available to the cadets to further their hobbies or specific interests. It has been found that participation in these activities helps to develop leadership abilities. The cadets may form their own clubs and other activities, provided there is sufficient interest, and may join the organizations of their choice. Major cadet activities are as follows:

### *Representative Activities*

*Class Committees* — Representatives of each squadron are spokesmen for the class to study special problems, recommend procurement of gifts and memorials, and conduct election of class officers.



*Class Ring Committee* — Representatives of the Second Class select the ring crest and assist the class in selection and purchase of the class ring. The ring is awarded during June Week of the Second Class year.

*Wing Entertainment Committee* — Representatives from each squadron work in conjunction with the Cadet Activities Officer to provide entertainment for the Cadet Wing.

*Wing Dance Committee* — Representatives from each squadron plan dances for their class and the Cadet Wing.

*Catholic and Protestant Religious Councils* — Representatives from each class assist in planning religious activities and represent the Academy at intercollegiate religious conferences.

*Rally Committee* — Representatives from each squadron plan pep rallies and halftime events at football games and other competitive sports.

### ***Academic and Professional Activities***

*Cadet Forensic Association* — Provides cadets with an opportunity to participate in forensic activities including debating, extemporaneous speech, oratory, discussion, and interpretive reading. Members of the Association represent the Academy in intercollegiate speech competition.

*Cadet Forum* — Provides a forum for cadet and guest speaker discussion of public and military affairs and for participation in intercollegiate student conferences.

*Cadet Engineering Society* — Provides the means to engage in extracurricular engineering projects and activities.

*Cadet Chorale* — Provides for participation in group singing. The Chorale appears before the Cadet Wing and the public in approved instances.

*Professional Studies Group* — Provides an opportunity to learn more about airpower and airmanship subjects. The Studies Group hears lectures by military officials, conducts a books and periodicals review panel, supervises the use of squadron airpower rooms, and arranges a limited number of field trips to military installations.

### ***Publication Activities***

*Contrails Staff* — Responsible for publication of the “Contrails” handbook prior to June of each year. The handbook serves as a

record for the traditions and customs of the Cadet Wing as well as an orientation guide to the military service for each new class.

*Yearbook Staff* — Responsible for publication of the yearbook prior to graduation each year. The yearbook presents a pictorial history of the activities of the Cadet Wing and the Air Force Academy during the year.

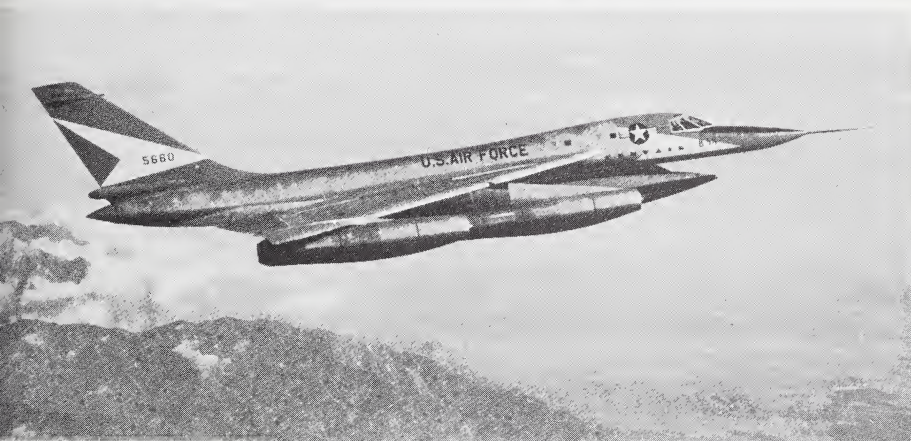
*Talon Staff* — Responsible for publication of the monthly cadet magazine "The Talon."

*Dodo Staff* — Responsible for writing an informal cadet paper called "The Dodo."

### ***Hobby Clubs***

The following clubs provide facilities and activities for the cadets in various hobbies:

Bowman Club	Musical Group
Bridge Club	Radio Club
Falcon Handlers	Ski Club
Bowling Club	Gun Club
Chess Club	Judo Club
Fishing Club	Model Engineering Club
Geography Club	Photography Club
Hockey Club	Saddle Club
Lacrosse Club	Water Polo Club



## **OFFICER RANK**

A cadet who has maintained the required grades will be graduated from the Academy with a commission as a second lieutenant in the Regular component of the United States Air Force. A limited number of graduates in each class may request assignment to other branches of the Armed Services.

## **PILOT TRAINING**

An Academy graduate who is physically qualified may volunteer for pilot or navigator training. After graduation leave he will be sent to an Air Training Command base and will spend about a year earning the rating of pilot or navigator.

## **CAREER ASSIGNMENTS**

An Academy graduate who completes pilot training will likely receive his first assignment in an operational unit as an air crew

member in fighter, bomber or troop carrier aircraft. A graduate who does not qualify for any type of flying duty may be sent to a professional technical school; for example, he may specialize in guided missiles and receive an assignment in missile operation or research and development.

Further education at an Armed Forces graduate school or at a civilian college or university may be one of the early assignments of an Academy graduate. He may concentrate his graduate work in the sciences, social sciences or humanities and later receive an assignment based on his specialty.

As the Academy graduate progresses in his career, he will be trained in several career fields and the range of his professional specialization will be wide. He will rotate between educational assignments, operational duties, and staff positions—both in the United States and overseas. With advances in rank his responsibilities will increase proportionately, and opportunities will be ever-present for him to evolve to greater command responsibility.

## **CAREER BENEFITS**

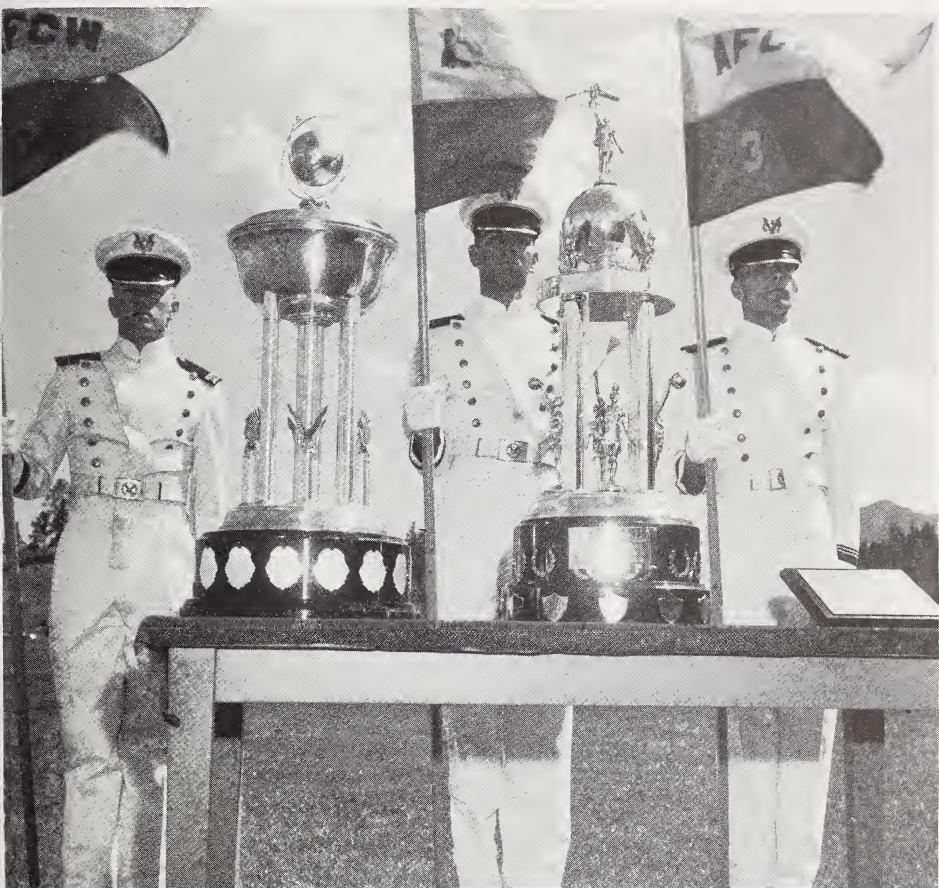
The Academy graduate will obtain substantial periodic pay increases and accrue promotions on the basis of efficiency and seniority through successive ranks. Besides his base pay he will receive flight pay (if on flying duty), tax free subsistence and quarters allowances, medical care for himself and dependents, payment of transportation costs, dislocation adjustments, and retirement pay. Some of the additional benefits which will be available to him are base exchange and commissary privileges, in-service housing loans, and educational opportunities. Monthly compensation is granted to dependents of deceased Air Force personnel who die in the line of duty while in the service.

## **ADVANCED EDUCATION**

The Air Force encourages its officers to apply for study in civilian colleges or universities. An officer is accepted for an educational assignment, based on his qualifications and the needs of the Air Force in his chosen field of study. It is anticipated that a substantial number of Academy graduates will have the opportunity to obtain advanced degrees. The Academy's four-year curriculum will qualify a graduate to study for a master's degree either in physical sciences, social sciences or humanities. All Academy graduates may expect to be assigned during their careers to one or more of the Armed Forces schools for advanced professional studies.



# appendix



## CADET AWARDS

The following individual merit awards were presented to outstanding cadets of the 1959 graduating class during June Week at the Air Force Academy:

*The Lieutenant Generals Millard F. and Hubert R. Harmon Award*

Sponsored by Mr. James Landauer of New York, N. Y.

To the outstanding cadet in General Order of Merit

**Bradley C. Hosmer**

*The General of the Air Force Henry H. Arnold Award*

Sponsored by the Aviator's Post 743, New York, N.Y., of the American Legion

To the Cadet Wing Commander

**Herbert A. Adamson**

*The General Muir S. Fairchild Award*

Sponsored by the American Legion

To the outstanding cadet in Academic Achievement

**Louis Kingsland, Jr.**

*The General Hoyt S. Vandenberg Award*

Sponsored by Mr. Charles P. McCormick, Baltimore, Md.

To the outstanding cadet in Airmanship Studies

**Bradley C. Hosmer**

*The First Lieutenant Beverly S. Parrish, Jr., Award*

Sponsored by the Air Force Cadet Wing

To the Chairman of the Cadet Honor Committee

**Kent Montavon**

*The Wright Brothers Award*

Sponsored by the Pennsylvania Society of Sons  
of the Revolution

To the outstanding cadet in Applied Sciences

**Louis Kingsland, Jr.**

*The Lieutenant General Claire L. Chennault Award*

Sponsored by the United Daughters of the Confederacy

To the outstanding cadet in Basic Sciences

**Louis Kingsland, Jr.**

*The Lieutenant General Barton K. Yount Award*

Sponsored by the National Society of the Sons of the  
American Revolution

To the outstanding cadet in Humanities Studies

**Gerald J. Garvey**

*The Amelia Earhart Award*

Sponsored by the National Woman's Relief Corps,  
Auxiliary to the Grand Army of the Republic

To the outstanding cadet in Social Sciences

**David K. Richart**

*The Brigadier General William Mitchell Award*

Sponsored by the Civil Air Patrol

To the outstanding cadet in Military Studies

**Karol J. Bobko**

*The Major General Oscar Westover Award*

Sponsored by the Ladies Auxiliary to the Veterans  
of Foreign Wars

For outstanding Cadet Effectiveness

**Herbert A. Adamson**

*The Floyd Bennett Award*

Sponsored by the Army-Navy Union, U.S.A.

To the cadet showing the most improvement in General  
Order of Merit

**Robert E. Blake**

*The Professor Samuel Pierpont Langley Award*

Sponsored by the National Society, Daughters  
of the American Revolution

To the outstanding cadet in Aerodynamics

**Hansford T. Johnson**

*The Dr. John Von Neumann Award*

Sponsored by friends of Dr. Von Neumann

To the outstanding cadet in Astronautics

**Douglas G. Grafflin, Jr.**

*The Captain Edward E. Barrow Award*

Sponsored by the National Society, Daughters  
of American Colonists

To the outstanding cadet in Chemistry

**Joseph D. Morgan, III**

*The Lieutenant Colonel Thomas Hitchcock Award*

Sponsored by Mr. Hugh Shockley, Denver, Colo.

To the outstanding cadet in Economics

**Karol J. Bobko**

*The Major General Herbert A. Dargue Award*

Sponsored by the Armed Forces Communications and  
Electronics Association

To the outstanding cadet in Electrical Engineering

**Joseph D. Morgan, III**

*The Captain James Hall and Lieutenant Charles Nordhoff Award*

Sponsored by the Veterans of Foreign Wars  
of the United States

To the outstanding cadet in English

**Gerald J. Garvey**

*The Major G. Raoul Lufbery Award*

Sponsored by the Military Order of World Wars

To the outstanding cadet in Foreign Languages

**Harold W. Todd, Jr.**

*The Lieutenant General Frank M. Andrews Award*

Sponsored by Mrs. Chester A. Smedley, Denver, Colo.

To the outstanding cadet in History

**James M. Rhodes, Jr.**

*The Colonel Paul W. Brosman Award*

Sponsored by the American Bar Association

To the outstanding cadet in Law

**David K. Richart**

*The Dr. Robert H. Goddard Award*

Sponsored by the American Ordnance Association

To the outstanding cadet in Mathematics

**Brock T. Strom**

*The Colonel Carl F. Greene Award*

Sponsored by Colonel Archie Higdon, Professor of

Mechanics, Air Force Academy

To the outstanding cadet in Mechanics

**Gerald F. Elsbernd**

*The Brigadier General Frederick W. Castle Award*

Sponsored by the National Society, Colonial Daughters  
of the Seventeenth Century

To the outstanding cadet in National Defense Policy

**Gerald J. Garvey**

*The Brigadier General Paul T. Cullen Award*

Sponsored by the Institute of Navigation

To the outstanding cadet in Navigation Achievement

**Roger H. Peterson**

*The Captain Dean G. Crowell Award*

Sponsored by the Jewish War Veterans of the  
United States of America

To the outstanding cadet in Physical Education

**Kenneth R. Smith**



*The Major General George O. Squier Award*

Sponsored by the Military Order of Foreign Wars  
of the United States

To the outstanding cadet in Physics

**Bradley C. Hosmer**

*The Captain Richard T. Carlvolth, III, Award*

Sponsored by the National Society, Daughters of Founders  
and Patriots of America

To the outstanding cadet in Political Science

**David K. Richart**

*The Colonel Homer Kellems Award*

Sponsored by the Reserve Officers Association

To the outstanding cadet in Thermodynamics

**Hansford T. Johnson**

*The Captain Earl N. Findley Award*

Sponsored in behalf of the people of Colorado Springs  
by the Chamber of Commerce

To the Editor of the Talon, the cadet magazine

**Larry D. Fortner**

*The Brigadier General A. Robert Ginsburgh Award*

Sponsored by the Daughters of the Union Veterans  
of the Civil War

To the Editor of Polaris, the cadet yearbook

**Michael P. C. Carns**

*The Major General James E. Fechet Award*

Sponsored by the National Society, Children of the  
American Revolution

To the outstanding cadet in Intercollegiate Speech Competition

**Gerald J. Garvey**

*The Autrey Brothers Award*

Sponsored by the Autrey Brothers of Denver, Colo.

To the basketball player with the Best Free Throw Record

**Robert D. Beckel**

*Outstanding Achievement Award*

Sponsored by the Air Force Athletic Association

To the outstanding cadet in Varsity Fencing

**Harlow K. Halbower**

*Air Force Times Award*

Sponsored by the Air Force Times

To the cadet who was outstanding Football Lineman of 1958

**David J. Phillips**

*Air Force Times Award*

Sponsored by the Air Force Times

To the cadet who was outstanding Football Back of 1958

**Stephen E. Galios**

*Tate Brothers Award*

Sponsored by Mr. Dan Tate of Sports Illustrated

To the cadet who displayed the most outstanding  
Leadership as an Athlete

**Robert D. Beckel**

*N. Jay Boots Award*

Sponsored by Mr. N. Jay Boots, a friend of the Air Force

To the cadet who was Most Outstanding Athlete

**Lawrence J. Thomson**

*Air Force Academy Athletic Association Award*

Sponsored by the Air Force Academy Athletic Association

To the cadet athlete who contributed most to the  
Intercollegiate Athletic Program

**Brock T. Strom**

# DIRECTORY OF STAFF AND INSTRUCTIONAL PERSONNEL

## *Academic Program*

<b>Capt. William J. Acker</b>	<i>Assistant Professor of Economics</i> B.S., Purdue University M.S., University of Kansas M.A., Syracuse University
<b>Capt. Harman C. Agnew</b>	<i>Instructor in Chemistry</i> B.S., United States Military Academy M.A., University of Texas
<b>Maj. John S. Albright</b>	<i>Assistant Professor of Political Science</i> B.S., M.A., University of Maryland
<b>Capt. James O. Alderman</b>	<i>Instructor in Physics</i> B.A., M.S., University of Mississippi
<b>Capt. Arnold A. Anderson</b>	<i>Instructor in German</i> B.A., St. John's University, Brooklyn, N. Y.
<b>Capt. Joe E. Anderson</b>	<i>Instructor in Astronautics</i> B.S., United States Military Academy M.S.E., (Inst), M.S.E., (Aero), University of Michigan
<b>Capt. Loren A. Anderson</b>	<i>Assistant Professor of Aeronautics</i> B.S., United States Military Academy M.S.A.E., University of Michigan
<b>Capt. Willis S. Anderson</b>	<i>Assistant Professor of Chemistry</i> A.B., B.S., Cedarville College M.S., Ohio State University
<b>Capt. Edward Anlian</b>	<i>Instructor in Mathematics</i> B.S., Albright College M.S., University of Iowa
<b>Col. John W. Ault</b>	<i>Professor and Head of Department of Mathematics; Chairman of Basic Sciences Division</i> B.S., Bowling Green University M.A., Ohio State University
<b>1st Lt. Harry L. Axelrod</b>	<i>Instructor in Physics</i> B.S., University of Connecticut M.S.N.E., Air Force Institute of Technology
<b>Capt. Walter J. Bacon</b>	<i>Instructor in English</i> B.S., United States Military Academy M.A., University of Southern California
<b>Capt. John A. Baldner</b>	<i>Instructor in Mechanics</i> B.S., United States Military Academy M.S., Air Force Institute of Technology

<b>Maj. Arthur W. Banister</b>	<i>Assistant Professor of Mathematics</i> B.S., United States Military Academy M.S., North Carolina State College
<b>Capt. James E. Banks</b>	<i>Instructor in Chemistry</i> B.S., M.S., Ph.D., Stanford University
<b>Maj. Clarence E. Barnes</b>	<i>Instructor in Law</i> A.B., LL.B., University of Kentucky
<b>Capt. Daniel S. Barnes</b>	<i>Instructor in Astronautics</i> B.S., United States Military Academy S.M., Massachusetts Institute of Technology
<b>Capt. Charles Barnett</b>	<i>Assistant Professor of Spanish</i> B.A., University of Florida M.A., Louisiana State University
<b>Maj. Lloyd Barnett, Jr.</b>	<i>Instructor in English</i> B.S., United States Military Academy
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<b>Lt. Col. Edward M. Rex</b>	<i>Associate Professor of Aeronautics</i> B.S., University of Rochester M.S., Massachusetts Institute of Technology
<b>Capt. Clyde C. Reynolds</b>	<i>Instructor in Physics</i> B.S., United States Military Academy M.S., Ohio State University
<b>Capt. William L. Richardson, Jr.</b>	<i>Assistant Professor of History</i> B.S., United States Military Academy M.A., Columbia University
<b>Capt. John K. Riedel</b>	<i>Assistant Professor of Mechanics</i> B.S., Pennsylvania State University M.S., University of Illinois
<b>Capt. John C. Ries</b>	<i>Instructor in Political Science</i> B.S., Santa Clara University M.A., University of Detroit
<b>Maj. Joseph B. Roberts, Jr.</b>	<i>Assistant Professor of English</i> B.A., University of Alabama M.A., University of North Carolina Ph.D., University of Denver
<b>Capt. William M. Roberts, Jr.</b>	<i>Instructor in Economics</i> B.A., M.A., University of Iowa
<b>Capt. William L. Roche</b>	<i>Instructor in Russian</i> B.S., University of Kentucky M.A., Columbia University
<b>Capt. Wells P. Rollins</b>	<i>Instructor in Mathematics</i> B.S., United States Naval Academy M.S., University of Illinois
<b>Capt. Richard F. Rosser</b>	<i>Instructor in Political Science</i> B.A., Ohio Wesleyan University M.P.A., Syracuse University
<b>Capt. Robert C. Rounding</b>	<i>Instructor in Mathematics</i> B.S., United States Military Academy M.S., Oklahoma Agricultural and Mechanical College



<b>Lt. Col. Wilbert H. Ruenheck</b>	<i>Professor and Head of Department of History</i> A.A., Kemper Military School A.B., Washington University A.M., Ph.D., New York University
<b>Capt. George L. Rule, Jr.</b>	<i>Instructor in English</i> B.S., United States Military Academy M.A., Stanford University
<b>Capt. Edward T. Ryan</b>	<i>Instructor in German</i> B.A., St. Mary's College
<b>Capt. Malcolm E. Ryan</b>	<i>Instructor in Mathematics</i> B.S., United States Military Academy M.S., University of Colorado
<b>Capt. John Schlight</b>	<i>Instructor in History</i> B.A., St. Vincent's College M.A., Fordham University
<b>Capt. Calvin H. Schmid</b>	<i>Instructor in Chemistry</i> B.A., University of Wisconsin M.A., University of Texas
<b>Capt. Grover J. D. Schock</b>	<i>Instructor in Physiology</i> B.A., M.S., Ph.D., University of Illinois
<b>Capt. Harrold S. Shipps, Jr.</b>	<i>Executive Officer Academy Library</i> B.S., Bridgewater Teachers College, Mass.
<b>Capt. Harold D. Shultz</b>	<i>Assistant Professor of History</i> B.S., United States Military Academy M.A., Stanford University
<b>Maj. Seymour Shwiller</b>	<i>Associate Professor of Physics</i> B.S., College of William and Mary M.S., Ohio State University
<b>Maj. King D. Simon</b>	<i>Assistant Professor of Law</i> B.S., United States Military Academy LL.B., University of California
<b>Capt. William E. Simons</b>	<i>Instructor in History</i> B.S., United States Naval Academy M.A., Ed.D., Columbia University
<b>Capt. Jefferson A. Simpson</b>	<i>Instructor in Economics</i> B.S., United States Military Academy M.A., University of Denver
<b>Capt. James L. Singleton</b>	<i>Assistant Professor of Electrical Engineering</i> B.S., University of Colorado
<b>Capt. Robert S. Slizeski</b>	<i>Assistant Professor of Mathematics</i> B.S., United States Military Academy M.S., California Institute of Technology
<b>1st Lt. Douglas L. Smith</b>	<i>Instructor in Physiology</i> B.S., Ph.D., University of Utah

<b>Capt. Laun C. Smith</b>	<i>Instructor in History</i> A.B., Gettysburg College M.A., University of Pennsylvania
<b>Maj. Norman H. Smith</b>	<i>Instructor in Mathematics</i> B.S., State Teachers College, West Chester, Pa. M.S., State University of Iowa
<b>Maj. Milton D. Sprinkel</b>	<i>Instructor in Chemistry</i> B.S., Oklahoma Agricultural and Mechanical College M.S., Purdue University
<b>Lt. Col. Lee R. Standifer</b>	<i>Associate Professor of Mechanics</i> B.S., University of Tennessee Ph.D., Ohio State University
<b>Capt. Richard S. Steffel</b>	<i>Assistant Professor of German</i> B.A., Wittenberg College M.A., Charles University, Prague, Czechoslovakia
<b>Capt. Michael J. Steger</b>	<i>Instructor in Mathematics</i> B.S., United States Military Academy M.S., Texas Agricultural and Mechanical College
<b>Maj. Arthur R. Steiger</b>	<i>Instructor in Aeronautics</i> B.S., Purdue University M.S.A.E., (equivalent), Air Force Institute of Technology
<b>Maj. David B. Stevens</b>	<i>Instructor in Law</i> B.S., LL.B., University of North Carolina LL.M., Duke University
<b>Capt. Leslie R. Stevens</b>	<i>Instructor in Chemistry</i> B.S., United States Military Academy M.A., Columbia University
<b>Maj. C. A. Strawn</b>	<i>Instructor in Economics</i> B.S., University of California M.B.A., University of Denver
<b>Capt. James H. Sullivan</b>	<i>Instructor in Mathematics</i> B.S., United States Military Academy
<b>Capt. Victor D. Sutch</b>	<i>Instructor in History</i> A.B., Olivet Nazarene College M.A., Western Reserve University
<b>Lt. Col. John L. Sutton</b>	<i>Associate Professor of Political Science</i> B.A., M.A., University of Notre Dame Ph.D., University of Geneva, Switzerland
<b>1st Lt. Oleg V. Suzdaleff</b>	<i>Instructor in Russian</i> A.B., Stanford University
<b>Capt. Wesley D. Sweetser</b>	<i>Assistant Professor of English</i> B.A., M.A., Ph.D., University of Colorado

<b>Capt. Tyler W. Tandler</b>	<i>Instructor in Mechanics</i> B.S., United States Military Academy M.S., University of Michigan
<b>Maj. Robert G. Taylor</b>	<i>Instructor in Economics</i> B.S., University of California at Los Angeles M.A., Indiana University
<b>Maj. Robert L. Taylor</b>	<i>Associate Professor of Chemistry</i> B.S., M.A., University of Texas
<b>Capt. Albert H. Thelander</b>	<i>Instructor in History</i> A.B., Harvard College M.A., University of Colorado
<b>Capt. Roland E. Thomas</b>	<i>Instructor in Astronautics</i> B.S., ('51), B.S. ('52), New Mexico State University M.S., Stanford University Ph.D., University of Illinois
<b>Lt. Col. Warren C. Thompson</b>	<i>Associate Professor of English</i> A.B., University of California at Los Angeles M.A., University of California Ph.D., University of Southern California
<b>Capt. William J. Thorpe</b>	<i>Instructor in History</i> B.A., M.A., University of Minnesota
<b>Maj. Duane C. Tway</b>	<i>Assistant Professor of History</i> A.B., Bluffton College M.A., New York University
<b>Maj. Charles E. Tychsen</b>	<i>Instructor in Economics</i> B.S., Princeton University M.B.A., Ohio State University
<b>Maj. Robert G. Valpey</b>	<i>Faculty Executive; Associate Professor of Mechanics</i> B.S., United States Military Academy B.M.E., Cornell University M.S., University of Colorado
<b>Capt. Paul V. Vegna</b>	<i>Assistant Professor of Mathematics</i> B.S., Illinois Normal University M.S., Bradley University
<b>Capt. Phillip D. Vollman</b>	<i>Instructor in English</i> B.S., United States Military Academy M.A., Ohio State University
<b>1st Lt. Malham M. Wakin</b>	<i>Instructor in English</i> A.B., University of Notre Dame A.M., State University of New York Ph.D., University of Southern California
<b>Capt. Edward T. Walford</b>	<i>Instructor in Chemistry</i> B.S., Purdue University M.S., University of Michigan

<b>Capt. Robert A. Walsh</b>	<i>Assistant Professor of Physics</i> B.S., United States Military Academy B.S.E.E., Air Force Institute of Technology M.S.E.E., Stanford University
<b>Capt. Glenn E. Wasson</b>	<i>Instructor in History</i> B.S., M.A., Stanford University
<b>Capt. Robert B. Weaver</b>	<i>Assistant Professor of English</i> B.S., United States Naval Academy M.A., University of Texas
<b>Maj. Walter E. Weese</b>	<i>Associate Professor of English</i> A.B., University of Toledo M.A., Ph.D., Yale University
<b>Capt. Billy D. Welch</b>	<i>Instructor in Mathematics</i> B.S., M.S., Texas Agricultural and Mechanical College
<b>Capt. Loris D. Whipple</b>	<i>Instructor in Chemistry</i> B.S., Michigan State University M.S., University of California
<b>Capt. Robert M. Whitaker</b>	<i>Assistant Professor of Political Science</i> A.B., M.A., University of California
<b>Capt. Bob L. Whitfield</b>	<i>Instructor in Economics</i> B.S., University of Illinois LL.B., Stanford University M.P.A., Harvard University
<b>Maj. Winthrop W. Wildman</b>	<i>Instructor in French</i> B.S., United States Military Academy
<b>Capt. Evert D. Wilmoth</b>	<i>Instructor in Astronautics</i> B.S., United States Naval Academy S.M., Sc.D., Massachusetts Institute of Technology
<b>Col. James V. G. Wilson</b>	<i>Professor and Head of Department of Electrical Engineering</i> B.S., United States Military Academy M.S., University of Illinois
<b>Capt. William B. Wilson</b>	<i>Instructor in Electrical Engineering</i> B.S., United States Naval Academy M.S., Air Force Institute of Technology
<b>Capt. Robert F. D. Winger</b>	<i>Instructor in Spanish</i> B.S., United States Military Academy M.A., Middlebury College Studies, University of Madrid, Spain
<b>1st Lt. Jack A. Winstead</b>	<i>Instructor in Chemistry</i> B.S., University of Kentucky M.S., Oklahoma State University
<b>Col. William T. Woodyard</b>	<i>Permanent Professor and Head of Department of Chemistry</i> A.S., St. Joseph's Junior College B.S., A.M., University of Missouri



<b>Maj. George E. Yale, Jr.</b>	<i>Assistant Professor of Aeronautics</i> B.S., M.S., University of Minnesota
<b>Lt. Col. Wayne A. Yeoman</b>	<i>Professor and Head of Department of Economics</i> B.S., United States Military Academy M.B.A., Harvard University
<b>Capt. David D. Zink, II</b>	<i>Instructor in English</i> B.J., University of Texas M.A., University of Colorado
<b>Capt. David H. Zook, Jr.</b>	<i>Instructor in History</i> A.B., Wittenberg College M.A., Ph.D., Ohio State University

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## *Airmanship Program*

<b>Lt. Donald Deane Aldern</b> (USN)	<i>Instructor in Navigation</i> B.S., United States Naval Academy
<b>Maj. Earl H. Ambrose</b>	<i>Air Officer Commanding, 7th Cadet Squadron</i>
<b>Maj. Warren J. Bale</b>	<i>Instructor in Navigation</i> B.S., University of Oklahoma
<b>Flt. Lt. Robert R. Barber</b> (RCAF)	<i>Instructor in Navigation</i>
<b>Capt. Walter H. Baxter, III</b>	<i>Instructor in Military Studies</i> B.S., United States Military Academy
<b>Capt. Robert E. Bennett</b>	<i>Instructor in Navigation</i> B.A., Northwestern State College, Oklahoma
<b>Lt. Col. Marion L. Boswell</b>	<i>Air Officer Commanding, 3rd Cadet Group</i> B.A., William Jewell College
<b>Maj. Herbert O. Brennan</b>	<i>Executive Officer, Division of Airmanship Studies</i> B.S., United States Military Academy
<b>Capt. Charles H. Brown</b>	<i>Instructor in Navigation</i> B.S., United States Military Academy
<b>Capt. Chester L. Brown</b>	<i>Instructor in Physiological Indoctrination</i> B.A., Syracuse University
<b>Capt. James T. Brown</b>	<i>Instructor in Navigation</i> B.S., United States Naval Academy
<b>Maj. Ralph J. Buck</b>	<i>Officer-in-charge, Cadet Store</i>

<b>Capt. Thomas F. Bullock</b>	<i>Air Officer Commanding, 15th Cadet Squadron</i> B.S., United States Military Academy
<b>Capt. Charles A. Byrne</b>	<i>Instructor in Military Studies</i> B.S., United States Military Academy
<b>Capt. Richard G. Carnright</b>	<i>Air Officer Commanding, 10th Cadet Squadron</i> B.S., United States Military Academy
<b>Lt. Col. Louis J. Churchville</b>	<i>Director of Military Studies</i> B.S., University of Maryland
<b>Capt. David J. Colgan</b>	<i>Instructor in Navigation</i> B.S., United States Military Academy
<b>Capt. Mathews M. Collins</b>	<i>Instructor in Psychology/Management</i> B.S., United States Military Academy M.S., University of Wyoming
<b>Lt. Col. Victor C. Conway</b>	<i>Director of Navigation</i> B.A., University of California at Los Angeles
<b>Maj. Joseph D. Cortez</b>	<i>Chief, Advanced Branch, Department of Navigation</i> B.S., University of Arizona
<b>Capt. George A. Crane, Jr.</b>	<i>Instructor in Military Studies</i> B.A., Virginia Military Institute
<b>Capt. Harry E. Dunivant</b>	<i>Air Officer Commanding, 1st Cadet Squadron</i> B.S., United States Military Academy
<b>Maj. Ray A. Dunn, Jr.</b>	<i>Executive, Deputy Commandant for Cadet Wing Command</i> B.S., United States Military Academy M.A., Catholic University of America
<b>Lt. Col. Walter E. Echelberger</b>	<i>Director of Cadet Wing Services</i>
<b>Capt. Robert K. Eckert</b>	<i>Instructor in Navigation</i> B.S., Pennsylvania State Teachers College M.S., Syracuse University
<b>Capt. Billy J. Ellis</b>	<i>Air Officer Commanding, 5th Cadet Squadron</i> B.S., United States Military Academy
<b>Capt. Herbert L. Emanuel</b>	<i>Chief, Cadet Activities Division</i> B.A., University of Massachusetts
<b>Capt. Robert B. Ennis</b>	<i>Education Officer, Division of Airmanship Studies</i> B.S., United States Military Academy
<b>Wing Comdr. Robert W. G. Freer (RAF)</b>	<i>Instructor in Military Studies, Royal Air Force Liaison Officer</i> Royal Air Force Staff College

<b>Capt. William H. Gibson</b>	<i>Instructor in Navigation</i> B.S., University of Georgia
<b>Maj. Guy E. Hairston, Jr.</b>	<i>Air Officer Commanding, 11th Cadet Squadron</i> B.S., United States Military Academy
<b>Maj. Charles M. Hall (USA)</b>	<i>Air Officer Commanding, 4th Cadet Squadron</i> B.A., United States Military Academy
<b>Capt. Frederick J. Hampton</b>	<i>Air Officer Commanding, 3rd Cadet Squadron</i> B.S., United States Military Academy
<b>Maj. Ralph B. Hemmig</b>	<i>Instructor in Navigation</i> B.A., Sacramento State College
<b>Lt. Col. Henry M. Henington</b>	<i>Air Officer Commanding, 2nd Cadet Group</i>
<b>Capt. Kenneth F. Hite</b>	<i>Instructor in Military Studies</i> B.S., United States Military Academy
<b>Capt. Donald E. Hovey</b>	<i>Cadet Counseling</i> B.A., University of California at Los Angeles M.A., University of Colorado
<b>Capt. Walter P. Hutchins (USMC)</b>	<i>Instructor in Psychology/Management</i> B.S., United States Naval Academy
<b>Capt. Paul M. Ingram</b>	<i>Air Officer Commanding, 8th Cadet Squadron</i> B.S., United States Military Academy
<b>Capt. Lyle D. Kaapke</b>	<i>Instructor in Psychology/Management</i> B.S., University of Dubuque M.A., Baylor University
<b>Capt. James R. Kalow</b>	<i>Assistant Director of Cadet Wing Services</i>
<b>Capt. Charles E. Koeninger</b>	<i>Instructor in Psychology/Management</i> B.S., University of Texas M.B.A., University of Arizona
<b>Capt. Joseph A. Kulenguski</b>	<i>Supply and Services Officer</i>
<b>Maj. Leonard W. Lilley</b>	<i>Air Officer Commanding, 4th Cadet Group</i> B.S., United States Military Academy
<b>Capt. John A. Magee</b>	<i>Instructor in Psychology/Management</i> B.S., United States Military Academy M.B.A., Harvard University
<b>Capt. William J. Mahon</b>	<i>Instructor in Navigation</i> B.S., University of Houston M.A., Columbia University

<b>Maj. Everette L. Marcum</b>	<i>Air Officer Commanding, 1st Cadet Group</i>
<b>Sq. Ldr. Keith A. Martin (RAAF)</b>	<i>Instructor in Military Studies, Royal Australian Air Force Liaison Officer</i>
<b>Maj. Stephen Mattick</b>	<i>Director of Cadet Wing Personnel</i> B.A., University of Wyoming
<b>Capt. Patrick E. McGill</b>	<i>Air Officer Commanding, 6th Cadet Squadron</i> B.S., United States Military Academy
<b>Maj. Maurice E. McNabb</b>	<i>Officer-in-charge, Cadet Dining Hall</i>
<b>Capt. Marvin L. Montgomery</b>	<i>Aide de Camp to Commandant of Cadets</i> B.A., Emory University
<b>Capt. Rufus M. Monts, III</b>	<i>Air Officer Commanding, 2nd Cadet Squadron</i> B.M.E., Clemson Agricultural and Mechanical College
<b>Capt. David M. Mullaney</b>	<i>Instructor in Military Studies</i> B.S., United States Naval Academy M.S., Air Force Institute of Technology
<b>Maj. Jamison H. B. Newell</b>	<i>Chief, Fundamentals Branch, Department of Navigation</i> B.A., University of Pittsburgh
<b>Lt. Col. Gabriel D. Ofiesh</b>	<i>Director of Department of Leadership Studies; Professor of Psychology/Management</i> B.A., University of Pittsburgh M.A., Columbia University Ed.D., University of Denver
<b>Maj. William A. Patch (USA)</b>	<i>Air Officer Commanding, 9th Cadet Squadron</i> B.S., United States Military Academy
<b>Maj. Richard J. Pfrang</b>	<i>Executive Officer, Department of Navigation</i> B.A., Sacramento State College
<b>Maj. Robert M. Pomeroy</b>	<i>Instructor in Military Studies</i> B.S., United States Military Academy
<b>Lt. Comdr. John N. Price (USN)</b>	<i>Instructor in Military Studies</i> B.S., United States Naval Academy
<b>Capt. John F. Reilly</b>	<i>Instructor in Navigation</i> B.S., Florida Southern College
<b>Capt. Harold T. Reitan</b>	<i>Instructor in Navigation</i> B.A., St. Olaf College



<b>Lt. Col. William G. Ryan</b>	<i>Deputy Director of Leadership Studies; Associate Professor of Psychology/ Management</i> B.A., University of California M.B.A., Harvard University
<b>Maj. James E. Sandman</b>	<i>Air Officer Commanding, 16th Cadet Squadron</i> B.S., United States Military Academy
<b>Col. Louis T. Seith</b>	<i>Deputy Commandant for Cadet Wing Command</i> B.S., United States Military Academy
<b>Capt. Joseph P. Seymoe (USA)</b>	<i>Instructor in Psychology/Management</i> B.S., United States Military Academy
<b>Capt. Hamilton B. Shawe, Jr.</b>	<i>Instructor in Military Studies</i> B.S., United States Military Academy
<b>Capt. James C. Shively</b>	<i>Chief, Operations, Deputy Commandant for Cadet Wing Command</i> B.S., United States Military Academy
<b>Lt. Comdr. William N. Small (USN)</b>	<i>Air Officer Commanding, 13th Cadet Squadron</i> B.S., United States Naval Academy
<b>Maj. William O. Spiker</b>	<i>Executive Officer, Commandant of Cadets</i>
<b>Capt. Robert E. Stockhouse</b>	<i>Instructor in Psychology/Management</i> B.S., Black Hills Teachers College M.A., Columbia University Ed.D., Stanford University
<b>Capt. Ralph W. Stephenson, Jr.</b>	<i>Air Officer Commanding, 14th Cadet Squadron</i> B.S., United States Military Academy
<b>Maj. Gen. Henry R. Sullivan</b>	<i>Commandant of Cadets</i> B.S., United States Military Academy
<b>Maj. Edwin G. Triner</b>	<i>Assistant Professor of Psychology/ Management</i> B.S., United States Military Academy M.A., Ph.D., University of California
<b>Capt. Elbert M. Underwood</b>	<i>Instructor in Navigation</i> B.S., Simpson College
<b>Capt. Richard H. Wagner, Jr.</b>	<i>Assistant Director of Cadet Wing Services</i> B.S., Colorado State University

<b>Maj. John B. Wogan, Jr.</b>	<i>Scheduling Officer, Division of Airmanship Studies</i> B.S., United States Military Academy
<b>Col. Gerard G. Wolke</b>	<i>Deputy Commandant for Airmanship Studies</i> B.S., Creighton University M.A., Georgetown University
<b>Maj. John D. Woodson</b>	<i>Air Officer Commanding, 12th Cadet Squadron</i> B.A., United States Military Academy

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### ***Athletic Program***

<b>Capt. Oscar W. Agre, Jr.</b>	<i>Instructor in Physical Education</i> B.S., University of Michigan
<b>Capt. Ronald G. Allen</b>	<i>Instructor in Physical Education</i> B.S., M.S., University of Kentucky
<b>Capt. Roy L. Anderson, Jr.</b>	<i>Instructor in Physical Education; Assistant Football Coach</i> B.S., M.S., University of New Mexico
<b>Arne U. Arnesen</b>	<i>Instructor in Physical Education; Soccer Coach; Track Coach</i> B.S., University of Wisconsin M.S., P.E.D., Springfield College
<b>Capt. Thomas Bakke</b>	<i>Instructor in Physical Education; Assistant Football Coach</i> B.S., United States Naval Academy
<b>Thomas G. Berry</b>	<i>First Assistant Football Coach</i> B.S., M.S., University of Virginia
<b>1st Lt. Donald E. Blasi</b>	<i>Instructor in Physical Education; Assistant Football Coach</i> B.S., University of Kansas
<b>M/Sgt. George A. Boley</b>	<i>Rifle Coach</i>
<b>1st Lt. James N. Bowman</b>	<i>Instructor in Physical Education; Assistant Football Coach</i> B.S., University of Michigan
<b>Capt. Joe L. Bradley</b>	<i>Instructor in Physical Education; Assistant Basketball Coach</i> B.A., Oklahoma State University
<b>Capt. Garrett D. Buckner, Jr., (USA)</b>	<i>Instructor in Physical Education</i> B.S., United States Military Academy

<b>Capt. Paul S. Cleland</b>	<i>Instructor in Physical Education; Swimming Coach</i> B.S., Arizona State University
<b>Maj. Frederick F. Cook</b>	<i>Executive Officer</i> B.A., University of Arkansas
<b>1st Lt. Richard D. Conant</b>	<i>Instructor in Physical Education</i> B.A., Occidental College M.S., University of California at Los Angeles
<b>James I. Conboy</b>	<i>Athletic Trainer</i> A.B., University of Denver R.P.T., University of Colorado
<b>Capt. Lloyd C. Corder</b>	<i>Instructor in Physical Education</i> B.S., East Texas State College
<b>Capt. Carl B. Crews</b>	<i>Instructor in Physical Education</i> B.S., United States Military Academy
<b>Lt. Col. James F. Frakes</b>	<i>Chief, Equipment and Facilities Division</i> B.S., United States Military Academy M.B.A., George Washington University
<b>Capt. Richard L. Fritts</b>	<i>Instructor in Physical Education</i> B.S., Rutgers University
<b>Capt. John Gurski</b>	<i>Instructor in Physical Education; Assistant Football Coach</i> B.S., United States Naval Academy
<b>Capt. John G. Ignarski</b>	<i>Instructor in Physical Education; Assistant Football Coach</i> B.S., University of Kentucky
<b>Capt. Paul M. Ingram</b>	<i>Air Officer Commanding, 8th Cadet Squadron; Ski Coach (additional duty)</i> B.S., United States Military Academy
<b>Robert C. James</b>	<i>Business Manager of Athletics</i> B.S., University of Maryland
<b>Capt. Edwin H. King, Jr.</b>	<i>Instructor in Physical Education; Assistant Football Coach</i> B.S., United States Naval Academy
<b>Karl A. Kitt</b>	<i>Instructor in Physical Education; Wrestling Coach</i> B.S., Southwestern State Teachers College, Oklahoma
<b>1st Lt. Gerald C. Lawrence</b>	<i>Instructor in Physical Education</i> B.S., University of Mississippi
<b>Capt. Wendell Lawrence</b>	<i>Instructor in Physical Education; Baseball Coach</i> B.S., Michigan State University

<b>Capt. Walter A. Lenz</b>	<i>Instructor in Physical Education</i> A.B., Franklin and Marshall College
<b>Maj. John D. Ludlow</b>	<i>Chief, Instructional Branch, Department of Physical Education</i> B.S., United States Military Academy
<b>Capt. Michael F. McNamara</b>	<i>Instructor in Physical Education</i> B.S., Washington State College
<b>Ben S. Martin</b>	<i>Head Football Coach</i> B.S., United States Naval Academy
<b>Col. M. L. Martin</b>	<i>Director of Athletics (due to assume this position in August 1960)</i> B.S., United States Military Academy
<b>Capt. Edward P. Matthews</b>	<i>Cross Country Coach; Comptroller, AFAAA</i> B.S., University of Maryland M.A., University of Denver
<b>Lt. Col. Casimir J. Myslinski</b>	<i>Chief, Department of Physical Education</i> B.S., United States Military Academy M.A., Columbia University
<b>Capt. Charles W. Oliver</b>	<i>Chief, Administrative Branch, Department of Physical Education; Tennis Coach</i> B.S., United States Military Academy M.A., Columbia University
<b>Maj. Lawrence E. Owens</b>	<i>Instructor in Physical Education</i> B.S., Iowa State College M.A., Colorado State College of Education P.E.D., Indiana University
<b>1st Lt. Robert D. Peck, Jr.</b>	<i>Sports Publicity Office</i> B.S., University of Omaha
<b>Martin Reich</b>	<i>Director, Sports Publicity</i> B.A., University of Denver
<b>1st Lt. Franklin C. Rodgers</b>	<i>Instructor in Physical Education; Assistant Football Coach</i> B.S., Georgia Institute of Technology
<b>Capt. Richard E. Russ</b>	<i>Assistant Chief, Equipment and Facilities Division</i>
<b>Capt. John Schwall</b>	<i>Chief, Candidate Advisory Service, Department of Intercollegiate Athletics</i>
<b>Capt. E. Rox Shain</b>	<i>Instructor in Physical Education; Golf Coach; Assistant Football Coach</i> B.S., United States Military Academy
<b>Col. George B. Simler</b>	<i>Director of Athletics (due for transfer in August 1960)</i> B.S., University of Maryland



<b>CWO (W-2)</b> <b>Richard A. Skinner</b>	<i>Supply Officer, Equipment and Facilities Division</i>
<b>Capt. Robert F. Slezak</b>	<i>Chief, Intramural Branch, Department of Physical Education</i> B.S., M.A., University of Nebraska
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<b>1st Lt. Robert K. Strickland</b>	<i>Instructor in Physical Education</i> B.S., United States Military Academy
<b>Capt. Robert M. Sullivan, Jr.</b>	<i>Instructor in Physical Education; Gymnastics Coach</i> B.S., M.S., University of Illinois
<b>1st Lt. Donald J. Sutton</b>	<i>Instructor in Physical Education</i> B.S., United States Military Academy
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<b>1st Lt. Frank M. Verducci</b>	<i>Instructor in Physical Education; Assistant Soccer Coach</i> B.A., M.A., San Francisco State College
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### ***England***

7500th Air Base Group, Denham

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### ***Newfoundland***

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### ***Philippine Islands***

Clark AFB, Luzon

### ***Puerto Rico***

Ramey AFB, Aguadilla

## **COMMON MEDICAL REASONS FOR DISQUALIFICATION OF AIR FORCE ACADEMY CANDIDATES**

Listed below are some of the physical disqualifying factors on the Air Force Academy Qualifying Medical Examination.

### ***Visual Disqualifications***

Vision which is not at least 20/50 bilaterally, without glasses, for both near and distant vision; markedly deficient color vision (less than grade 2).

### ***Hearing Disqualifications***

Hearing which is not 15/15 bilaterally by whispered voice test or better; existing perforations of the tympanic membrane.

### ***Heart and Vascular System Disqualifications***

Systolic blood pressure greater than 139 and diastolic blood pressure greater than 89; heart rate of 100 or more after repeated examination in recumbent position; all murmurs, other than functional. (Arrhythmias will be carefully evaluated.)

### ***Height Disqualifications***

Under 64 inches and above 78 inches.

### ***Weight Disqualifications***

Evidence of gross under or over weight.

### ***Abdomen Disqualifications***

Hernia of any type, until corrected.

### ***Lungs and Chest Disqualifications***

History of tuberculosis within preceding 5 years. (Asthma of any degree or history thereof since 12th birthday will be carefully evaluated.)

### ***Genito-Urinary Disqualifications***

Varicocele, if large or painful, until corrected.

### ***Extremities Disqualifications***

Un-united fractures and old joint fractures with evidence of arthritis; pes planus with marked eversion and symptoms.

### ***Spine and Musculoskeletal Disqualifications***

Scoliosis of more than one inch; old vertebral fractures.

### ***Skin Disqualifications***

Chronic skin diseases such as severe acne or eczema or unsightly congenital markings.

### ***Neurologic Evaluations***

Head injury resulting in prolonged unconsciousness and neurological diseases of any kind will be carefully evaluated.

### ***Psychiatric Evaluations***

Emotional instability and psychiatric diseases will be carefully evaluated.

### ***Dental Disqualifications***

Less than 8 serviceable, vital permanent teeth in each of the upper and lower arches, exclusive of third molars, so positioned as to retain and adequately stabilize bridges or partial dentures. Dental caries are remediable defects, but are disqualifying until corrected. Severe malocclusion of the teeth or malrelation of the jaws sufficient to adversely affect the individual's health or appearance.

### ***Nasal Disqualifications***

Any congenital or acquired lesion which interferes with the functions of the nasopharynx or eustachian tubes.



## SAMPLE LETTER REQUESTING A CONGRESSIONAL NOMINATION

Honorable\_\_\_\_\_

House of Representatives

Washington 25, D. C.

OR

Honorable\_\_\_\_\_

United States Senate

Washington 25, D. C.

Dear Mr.\_\_\_\_\_:

Dear Senator\_\_\_\_\_:

It is my desire to attend the Air Force Academy and to make the United States Air Force my career. I respectfully request that I be considered as one of your nominees for the class that enters the Academy in June 1961.

The following personal data is furnished for your information:

Name:\_\_\_\_\_

Address:\_\_\_\_\_

Parents' Name:\_\_\_\_\_

Date of Birth:\_\_\_\_\_

High School Attended:\_\_\_\_\_

Date of High School Graduation:\_\_\_\_\_

Approximate Grade Average:\_\_\_\_\_

Height:\_\_\_\_\_Weight:\_\_\_\_\_

Visual Acuity:\_\_\_\_\_

I have been active in high school extracurricular activities shown on the attached list.

I shall greatly appreciate your consideration of my request for a nomination to the Air Force Academy.

Sincerely,

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*An Air Force Cadet with the Cadet Wing Mascot, the Falcon*



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